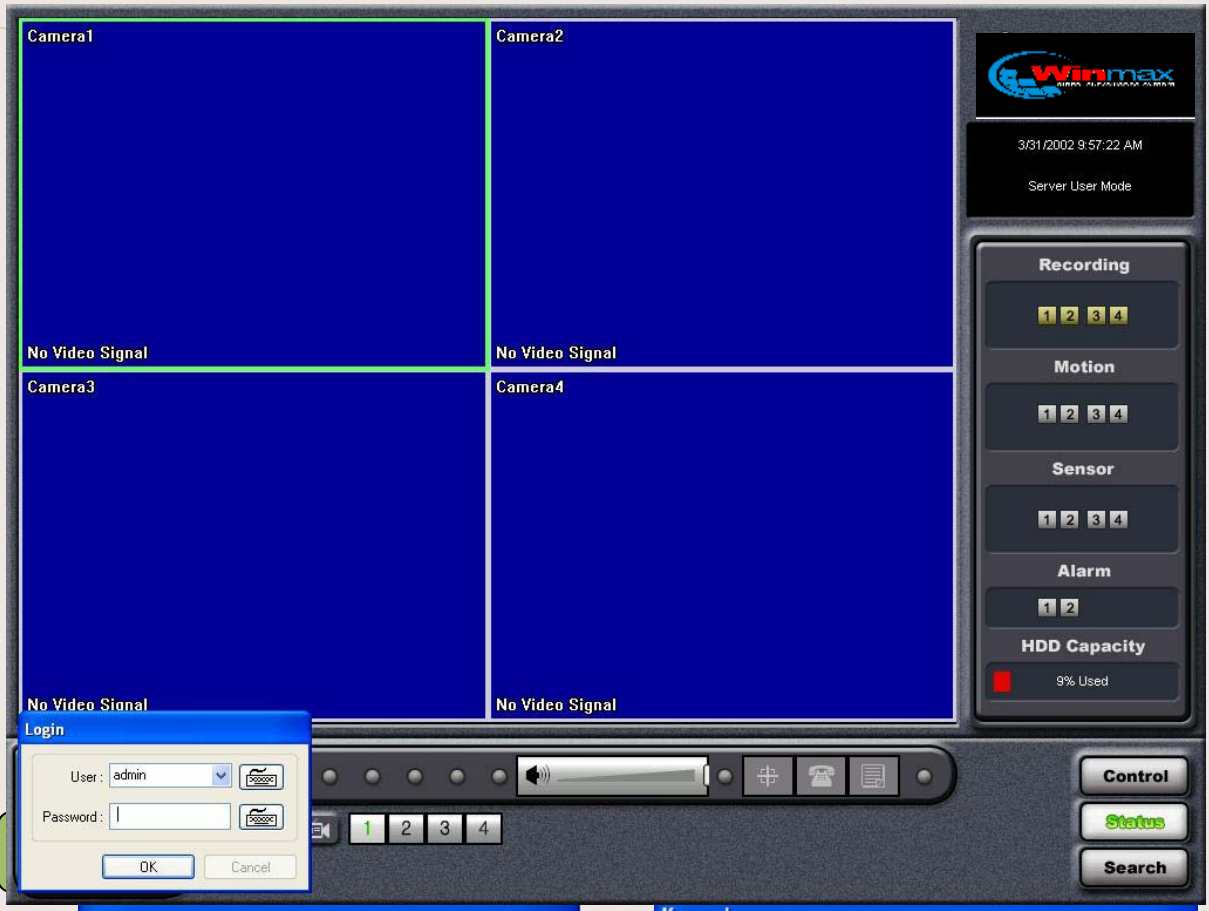
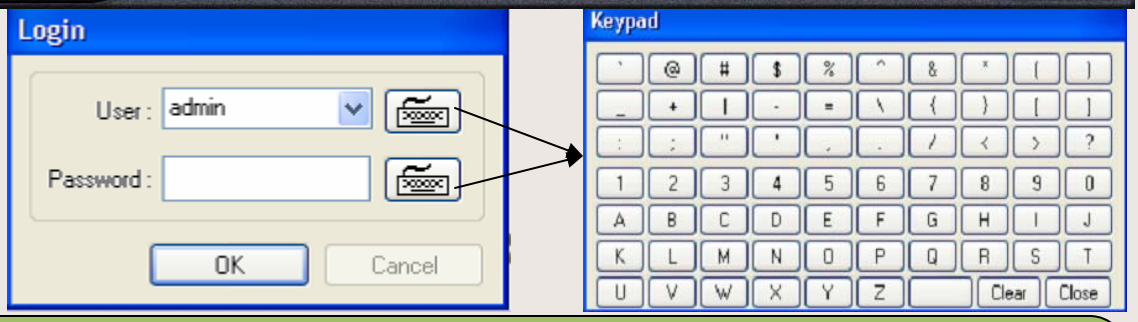
USER'S MANUAL

CHAPTER 1
Main System Application (Control)

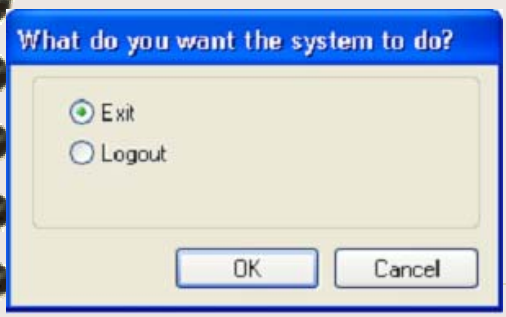
1.1 Startup Screen



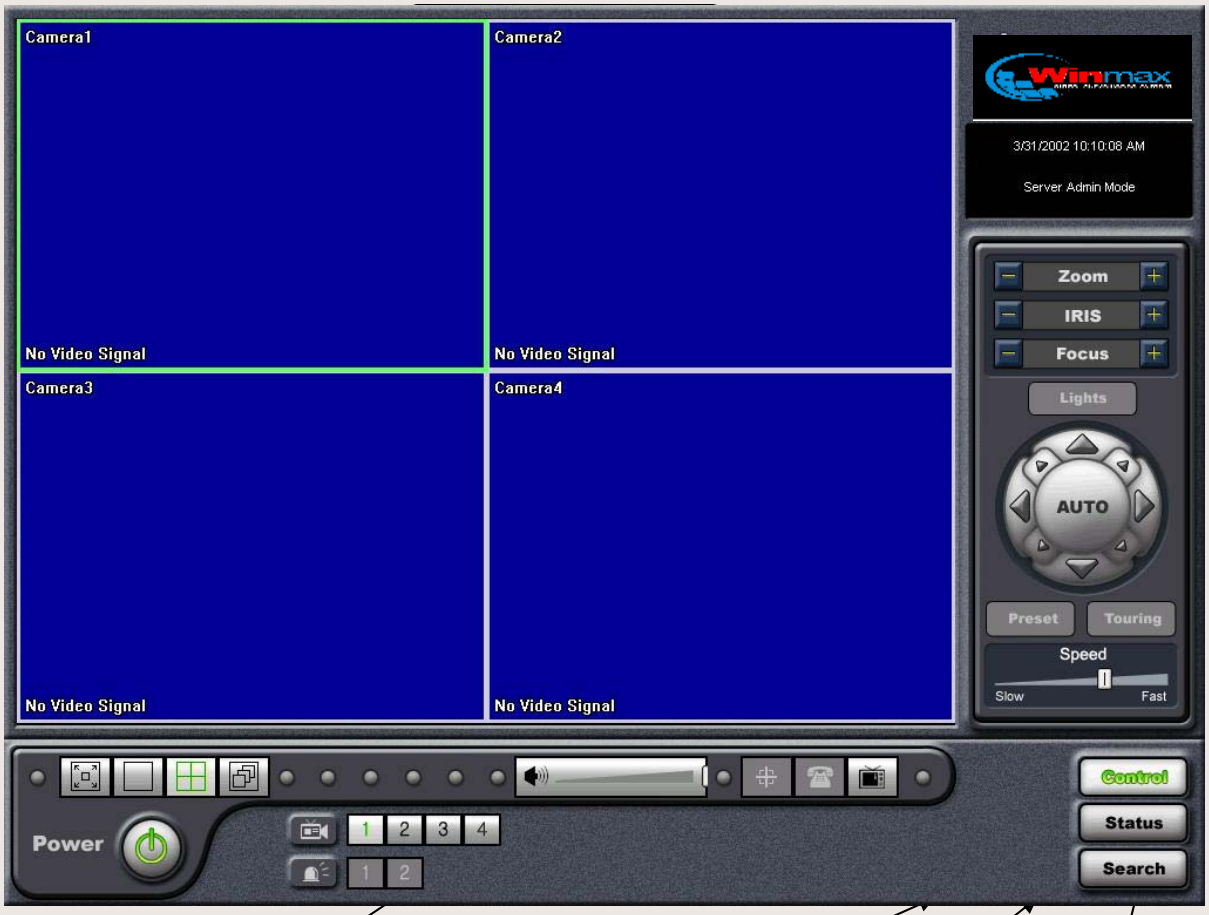


The default values for User and Password are “admin” and “no password”. Click “OK” to execute the Viewmax DVR system. To give “admin” a password and to create new users, certain configurations in the Setup are required. Only “admin” and users with appropriate authorization have access to the Setup menu.

1.2 Exit/Logout



By clicking the power button, a user will be asked as above. Select “Exit” to end the Viewmax DVR system. Note that there’s a password required to exit.



Power/Set Up

Camera Selection Panel

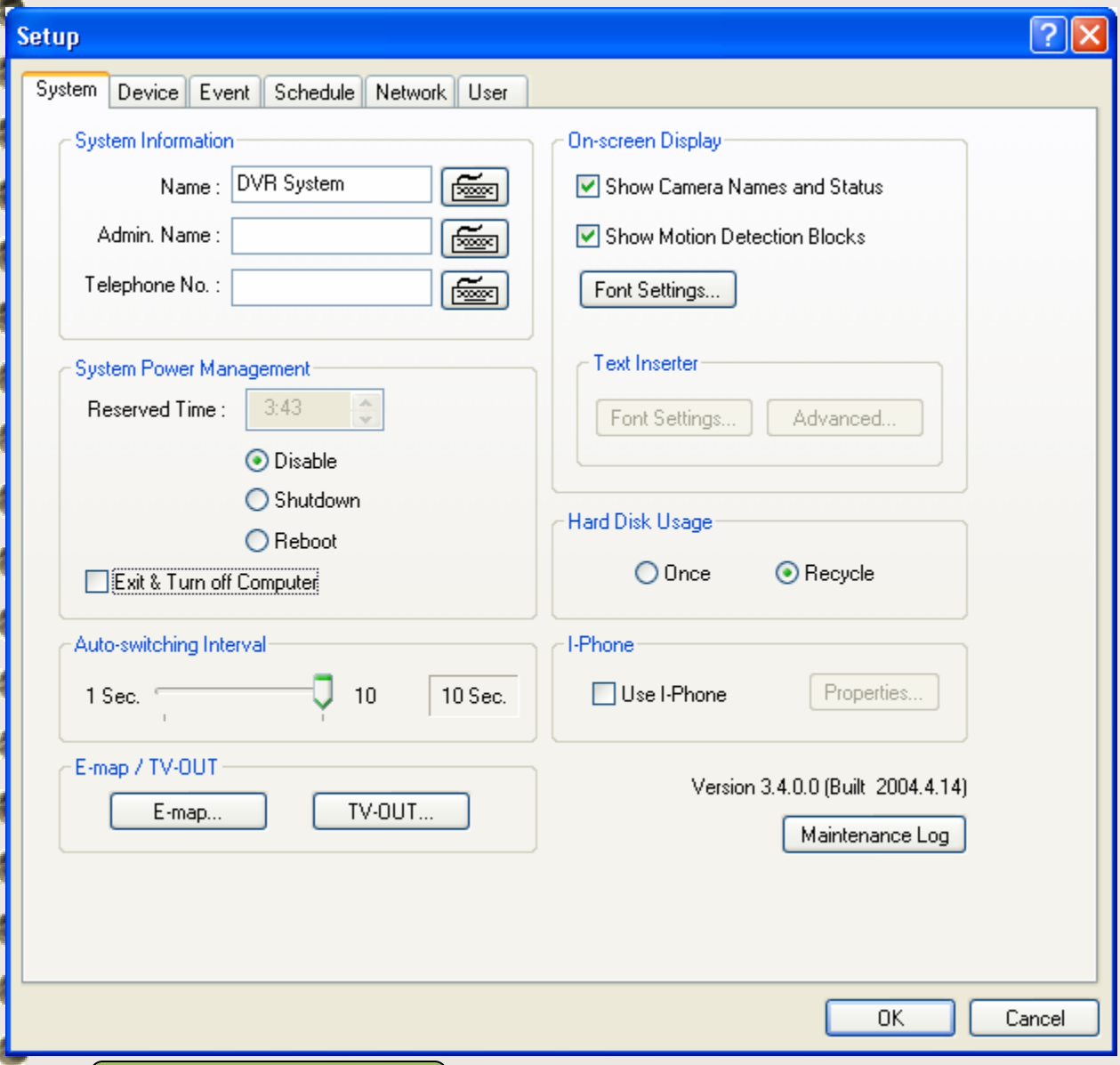
Control

Status

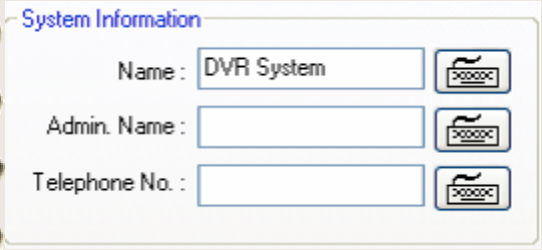
Search

1.4 Setup

1.4 System

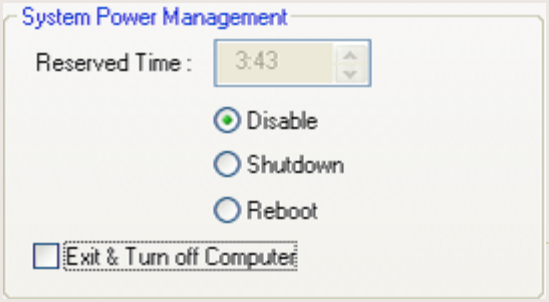


1.4 System Information



Create a name for your DVR system and put in admin. info. They will be displayed on outgoing e-mails.

System Power Management

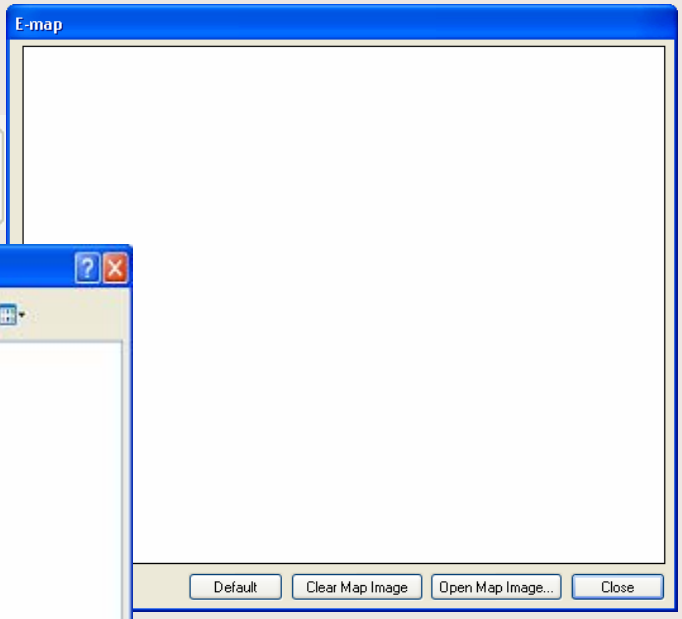


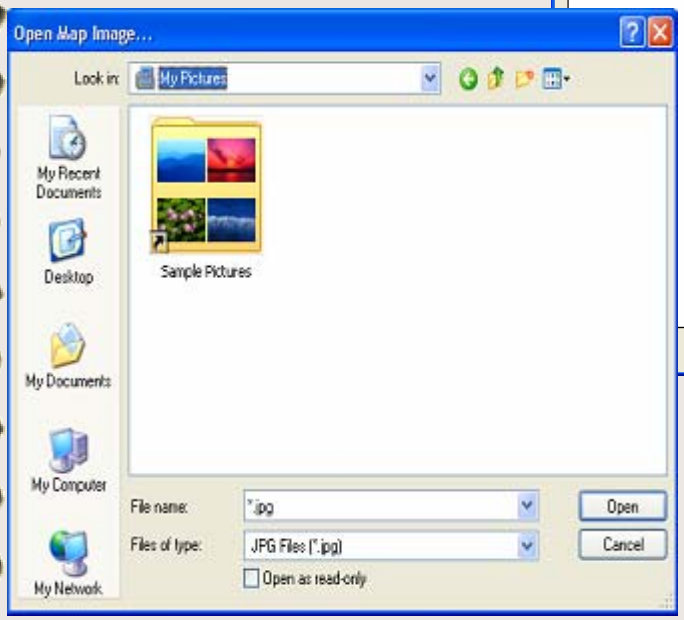
* Reserved time: Time set to shut down or reboot computer
* Disable: selected when the system power management is not to be used
* Shutdown: selected when shutting down computer is required at the time set
* Reboot: selected when rebooting computer is required at the time set
* Exit & Turn off Computer: By checking the box, computer will be turned off automatically as a user exits from the DVR system.

Auto-switching Interval

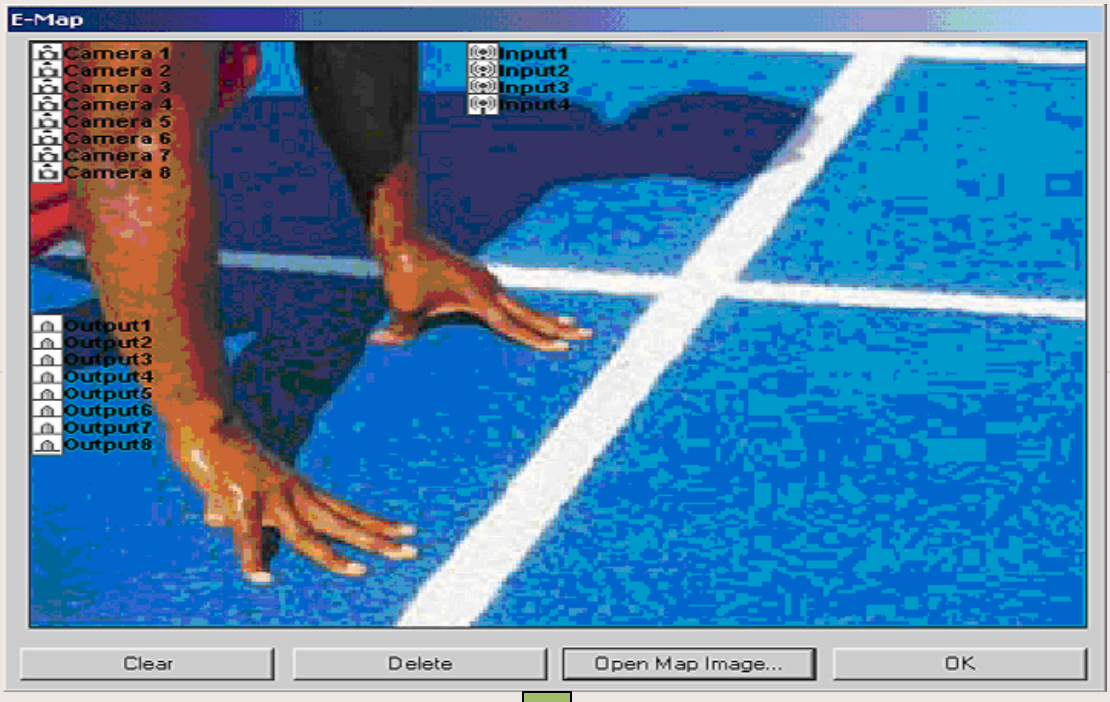
Auto-switching Interval is a function that allows the green square around a selected camera to move to the next one at the interval set. e.g.) Camera 1 –> 10 sec. -> Camera 2 -> 10 sec. -> Camera 3….

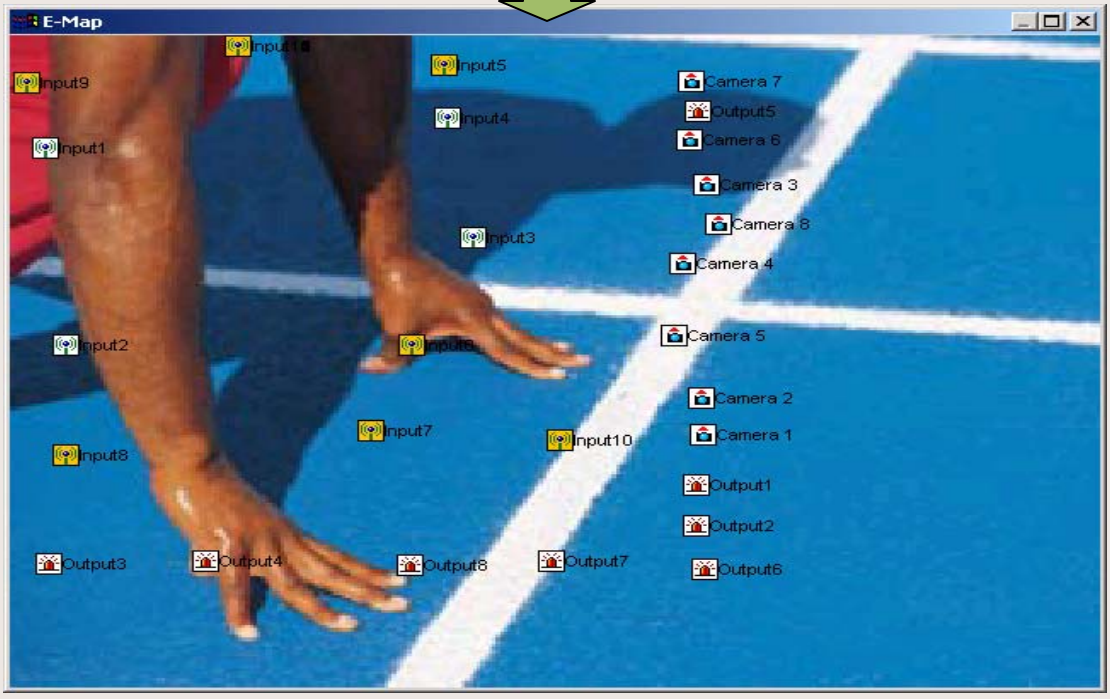
E-map



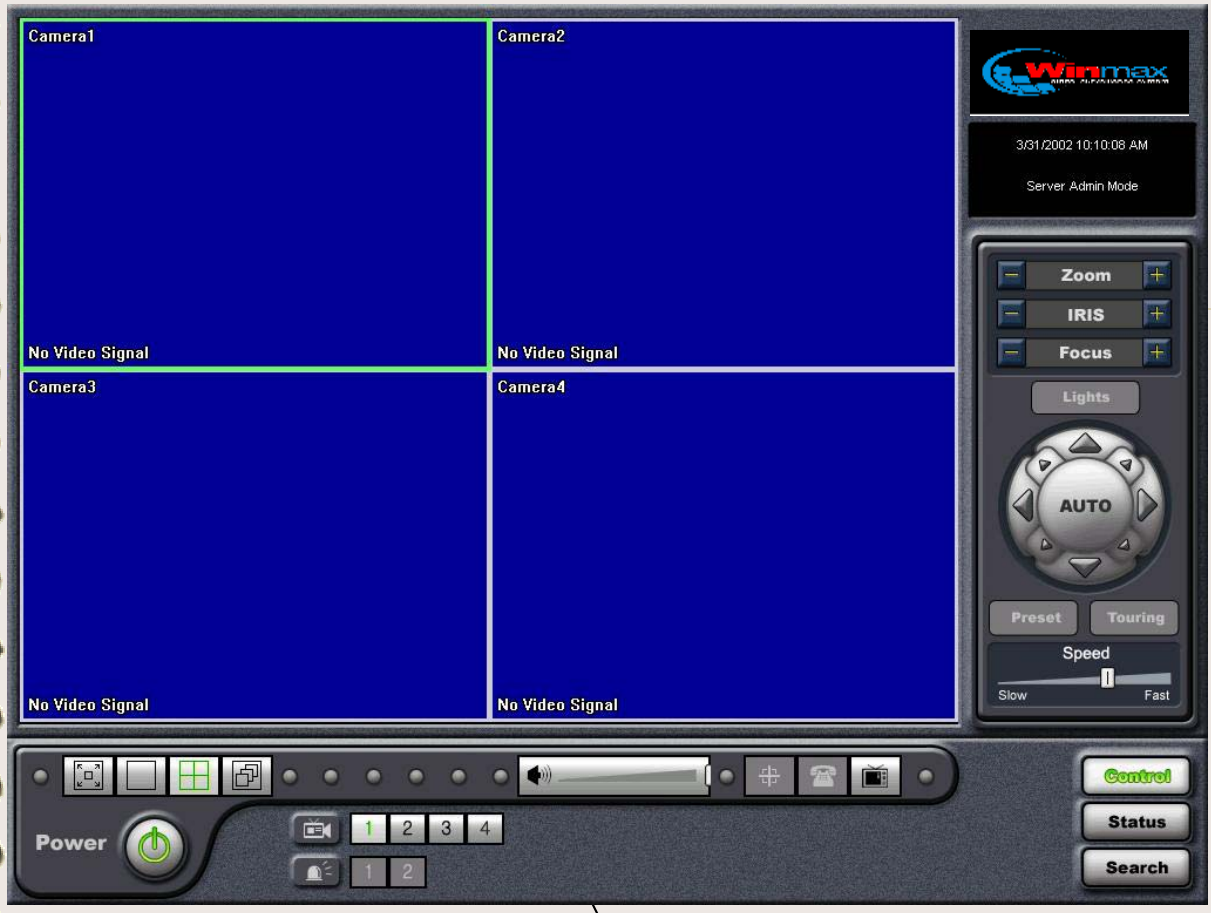


The dialog box above will be opened as a user clicks on the “E-map” button. Click on “Open Map Image” to select an E-map image.





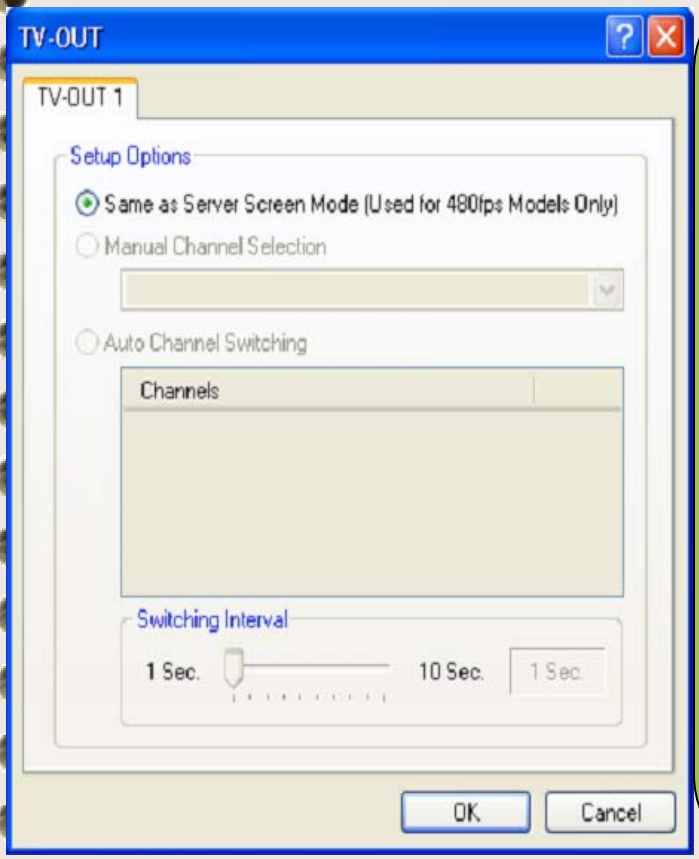
The above is a sample picture. Drag your mouse to position Camera/Input/Output and design your own E-map.



The E-map screen will appear as a user clicks on the E-map button positioned next to the I-phone button.
White Camera: Not on Recording, Yellow Camera: On Recording
White Input/White Output: Not Activated, Yellow Input/Yellow Output: Activated

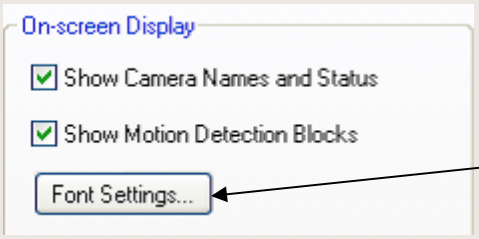
TV-OUT

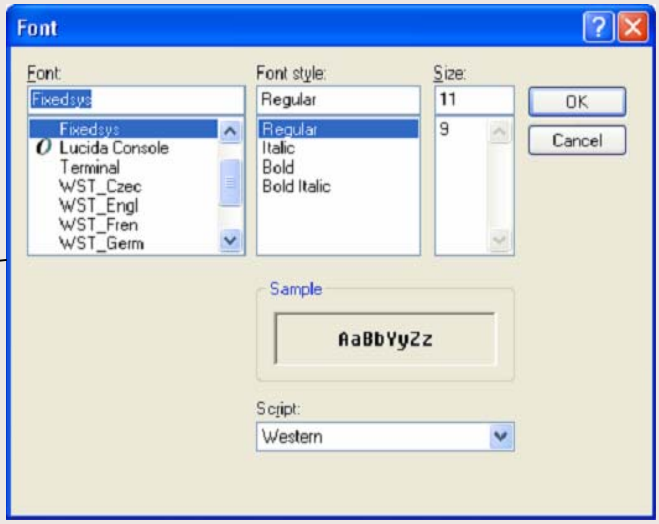
TV-OUT is a function that sends a selected camera to a call monitor (external analog monitor). Click on the “TV-OUT” button for setup.



* The models such as (240FPS/ 240FPS) & (480FPS/240FPS) support 2 TV-OUTs and the rest of models support 1.
* Setup Options:
1. Same as Server Screen Mode (For (480FPS/120FPS) only) - TV-OUT Monitor displays what's on DVR server.
2. Manual Channel Selection – A user manually selects a channel to be displayed. Once the "Manual Channel Selection" is selected, a user can also change channels manually on the Control screen by placing the mouse on a camera picture and clicking right mouse.
3. Auto Channel Switching – Selected Cameras rotate to display at the switching interval set.
* Switching Interval: The length of time to stay at one camera

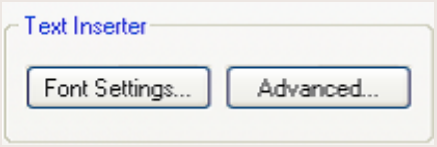
On-Screen Display





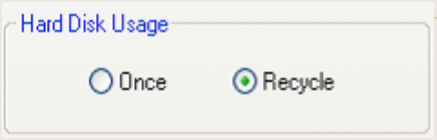
* Show Camera Names and Status: By checking it, camera names and status will be displayed on camera pictures.
* Show Motion Detection Blocks: By checking it, green motion detection blocks will be displayed on camera pictures as a user sets cameras under "M" (Setup/Schedule).

Text Inserter



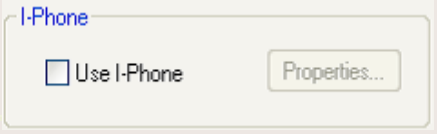
Text Inserter is a function that allows DVRs to integrate with POS machines. Simply install "text_inserter_plugin_for_pos" on DVR Server, and transactions that occur will be displayed on selected camera pictures. It enables users to search data as well. For more detailed installation, refer to Appendix 1.

Hard Disk Usage

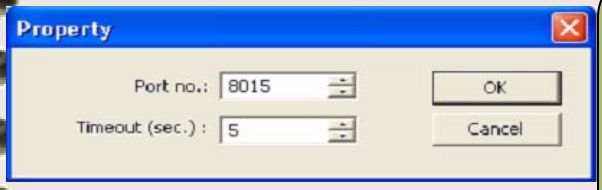


Hard Disk Usage is to select data storage method.
If a user selects "Once", data will be stored up to the point where HDD reaches its maximum capacity.
If a user selects "Recycle", data will be overwritten from the point HDD reaches its maximum capacity based on "First In First Out".

I-Phone



I-Phone is also called "Two-Way Communication". Check the box, go to the Control Screen, and click on the I-Phone button for audio communication with a user on the other side of the world. For more detailed I-Phone setup, refer to Appendix 2.



* Port No.: A port number for I-Phone use has To be set up. Normally the default value is good to use.
* Timeout: It indicates the maximum length of connection trial. If there is no response within the value set, the call will be cancelled.

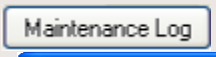
Version Info.

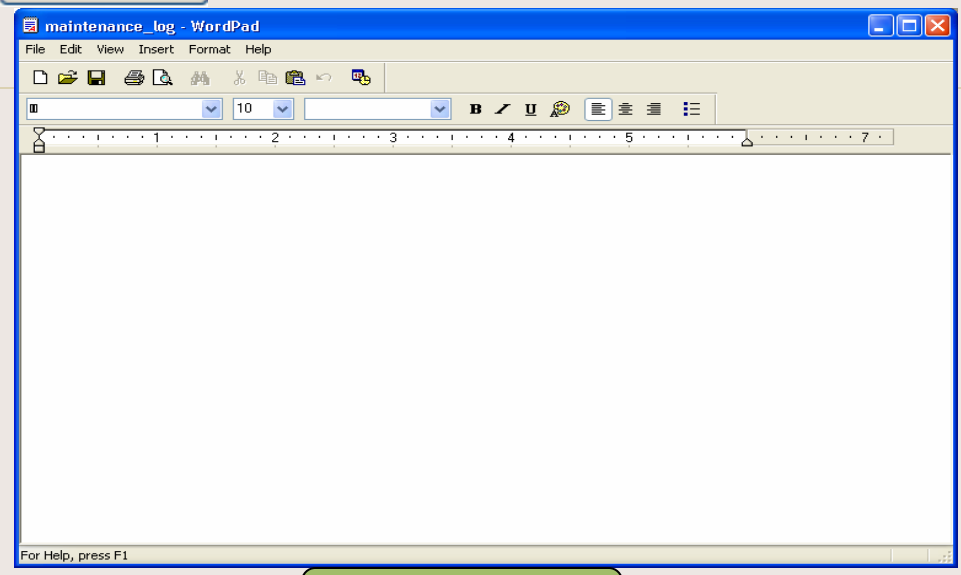
Version 3.4.0.0 (Built 2004.4.14)

* Version 3.4.0.0: version name
* Built 2004.4.14: built date

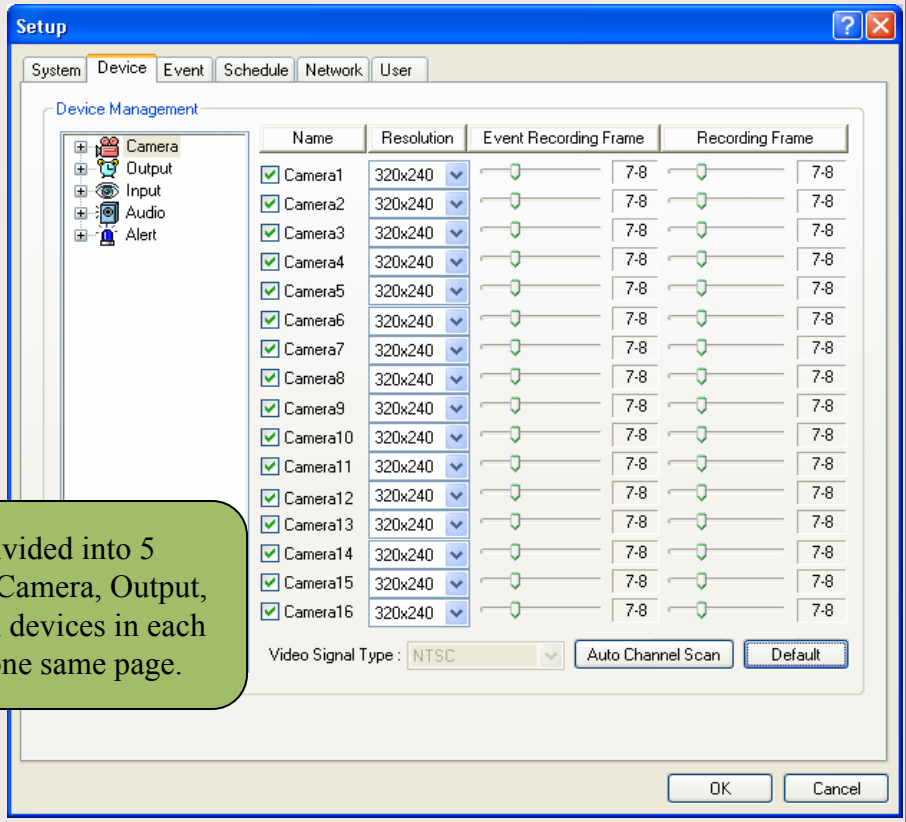
Maintenance Log

It is used to record and view maintenance history.



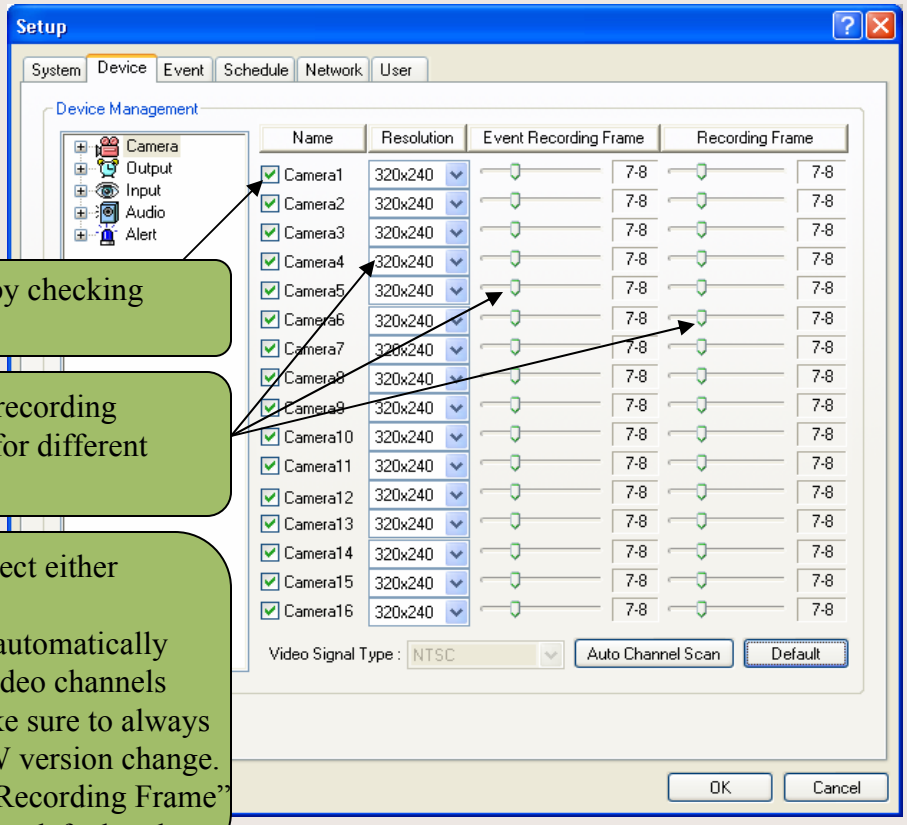


Device



The device sub-screen is divided into 5 different setup categories; Camera, Output, Input, Audio and Alert. All devices in each category can be set up on one same page.

Camera



Cameras will be enabled by checking the boxes.

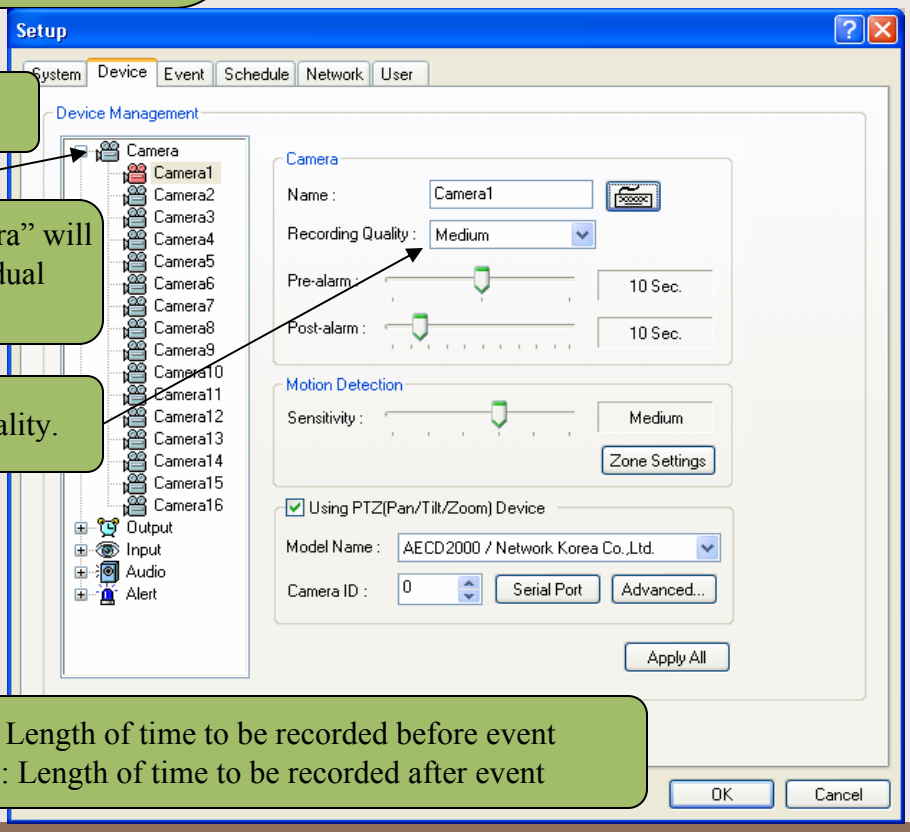
Different resolutions and recording frame rates can be set up for different cameras.

* Video Signal Type: Select either NTSC or PAL.
* Auto Channel Scan: It automatically identifies all the active video channels with active cameras. Make sure to always click and scan after a S/W version change.
* Default: It sets “Event Recording Frame” and “Recording Frame” on default values.

[Camera]

Double-clicking on “Camera” will Lead users for more individual Camera setup.

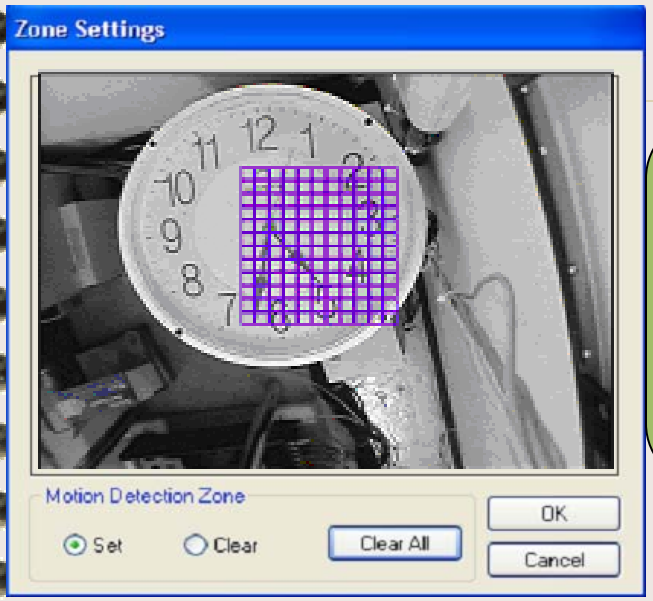
Select recording picture quality.



* Pre-alarm (max. 20 sec.): Length of time to be recorded before event
* Post-alarm (max. 60 sec.): Length of time to be recorded after event

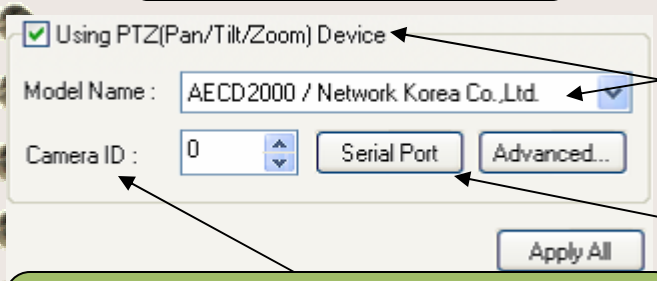
[Motion Detection]

MagicRadar is designed to have unlimited motion detection zones and to have different motion detection sensitivity levels.

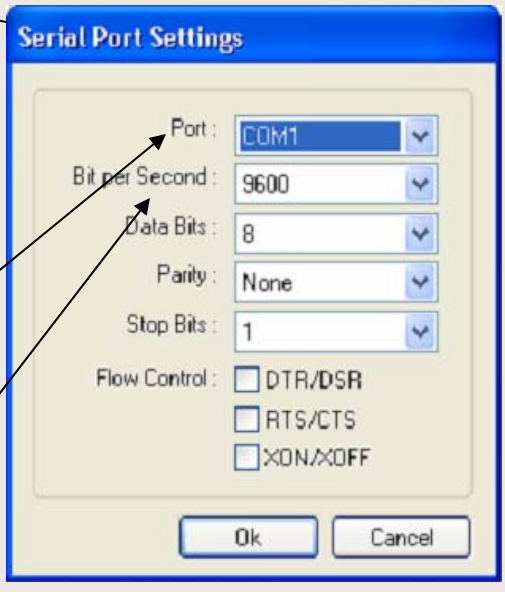


Zone Settings: 1. Select “Set”, drag the mouse to set motion detection zones and click “OK”. As stated above, there are no Limits in the number of zones.
2. Select “Clear” to clear certain areas inside the motion detection zones.
3. Click on “Clear All” to clear all the motion detection zones.

[PTZ Camera Setup]



If the selected camera for setup is a PTZ camera, check the box and select a model name. MagicRadar supports nearly 40 different protocols.



* Camera ID: Leave it as it is if only one PTZ camera is used. Otherwise, give each camera a different number.

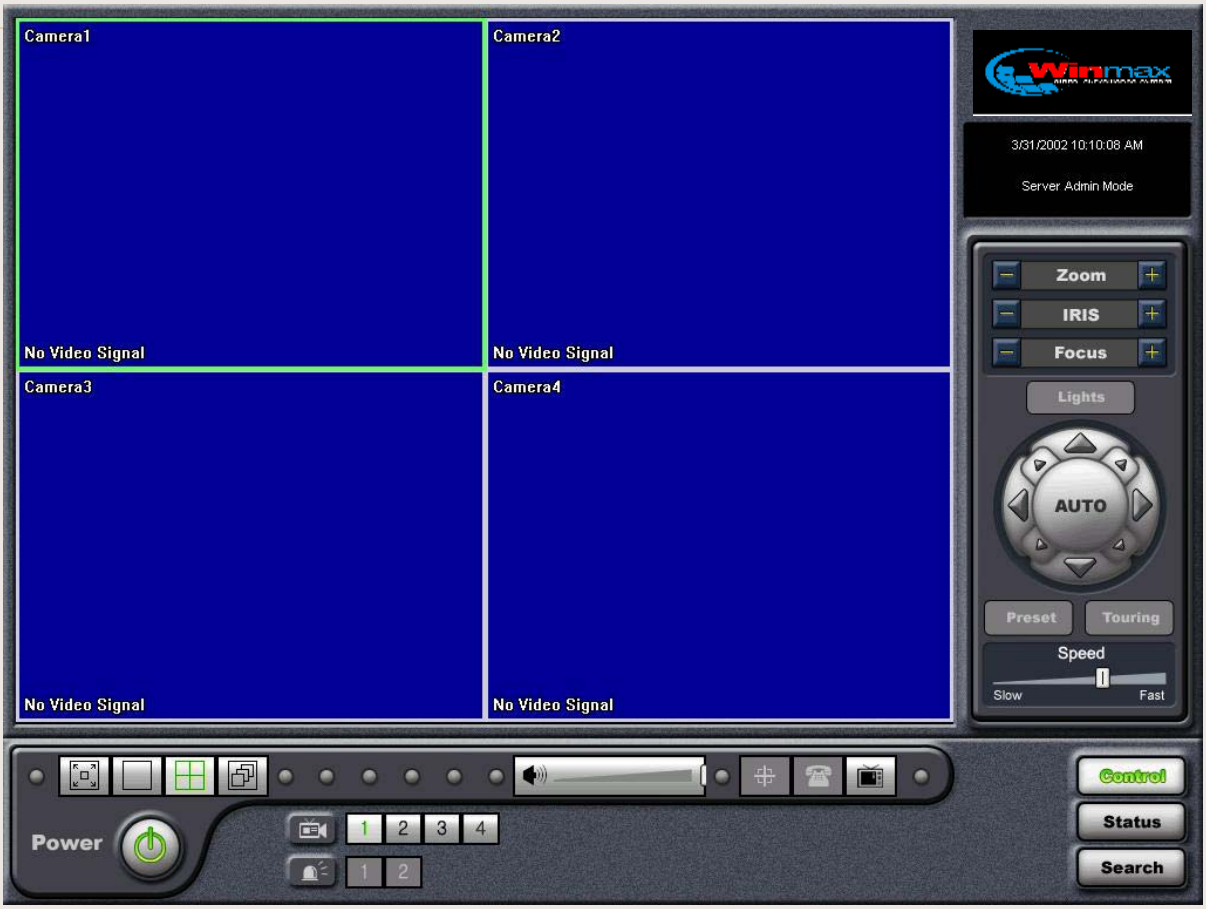
Select the port that the PTZ camera is connected.

* Bit per Second: It is 9600 for most of PTZ cameras. But a few can have different values. Refer to camera manuals.

* Apply All: The same settings will be applied to the rest of the cameras by clicking “Apply All”.

[Preset & Touring]

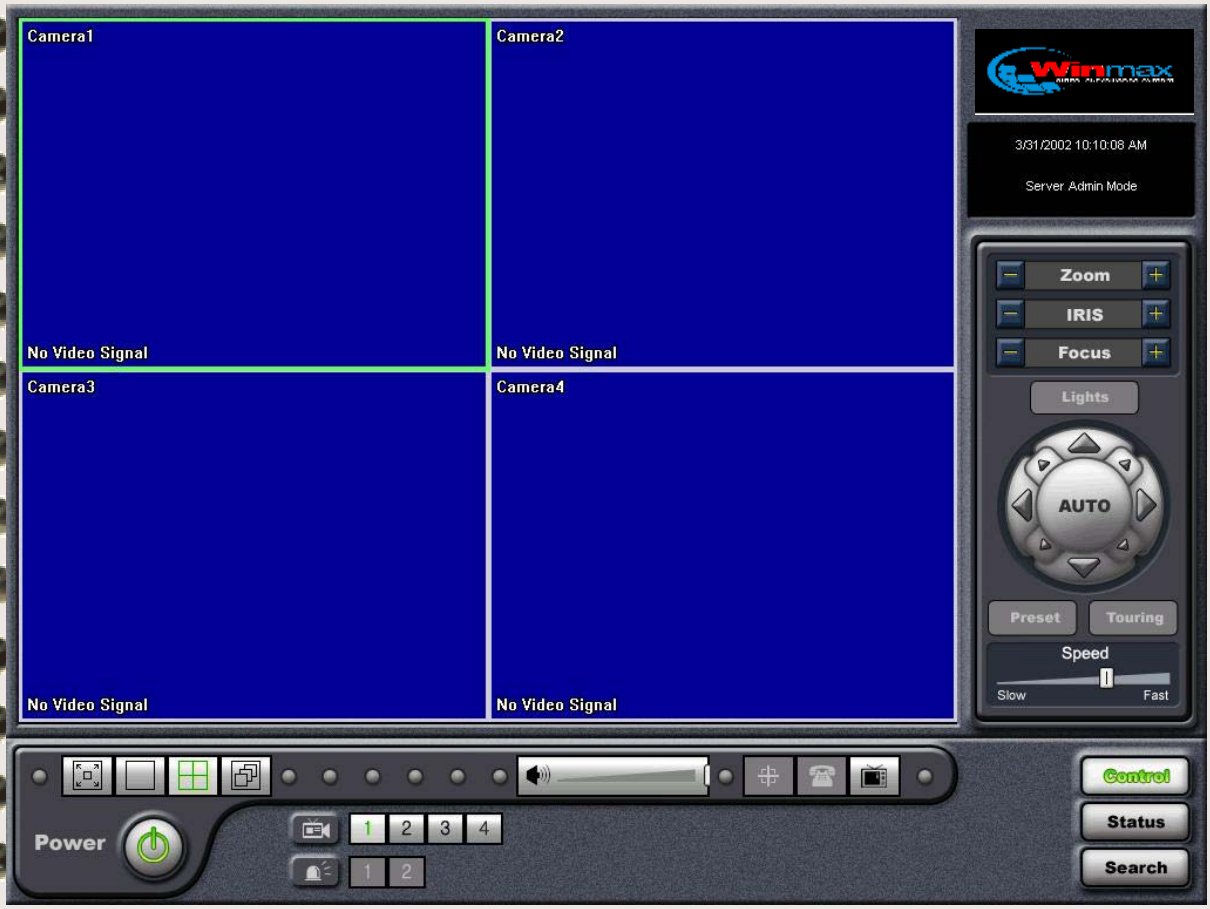
If a camera supports Preset and Touring, a right-mouse click will give users the below menu.



"Preset" is a function that enables a camera to move from one position to another automatically.

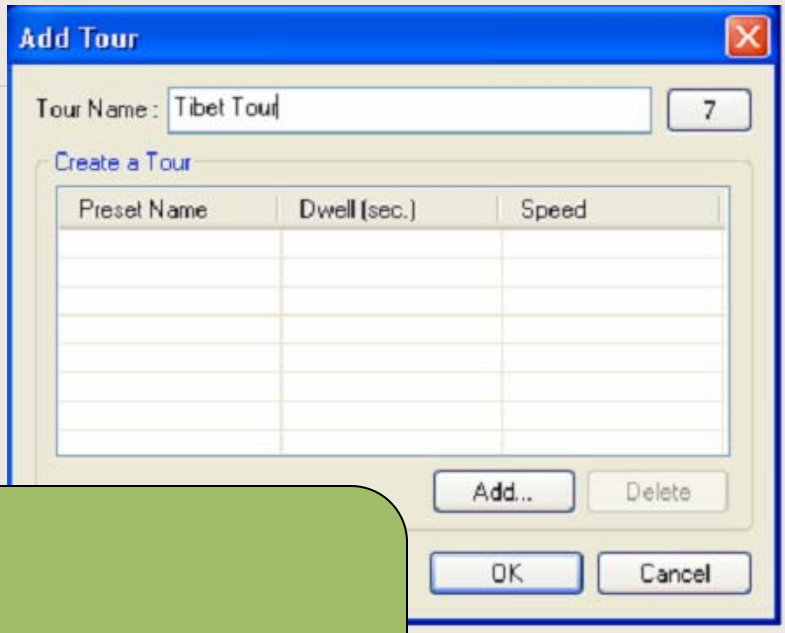
* Steps to Set up Presets *

1. Move the camera to a desired position using the PTZ Control on the main Control Screen.
2. Click the right mouse.
3. Name the preset.
4. Repeat the above for setting up as many as 256 presets.
5. Click the right mouse to run a preset and click the “Auto” button to stop it.

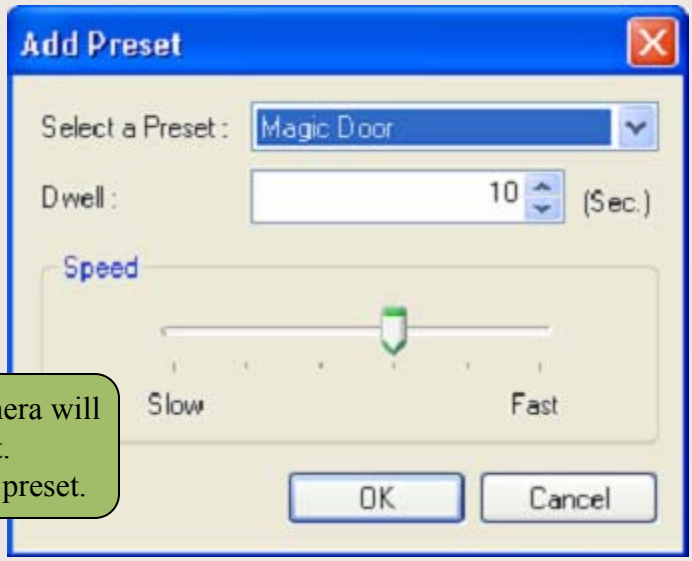


[Touring]

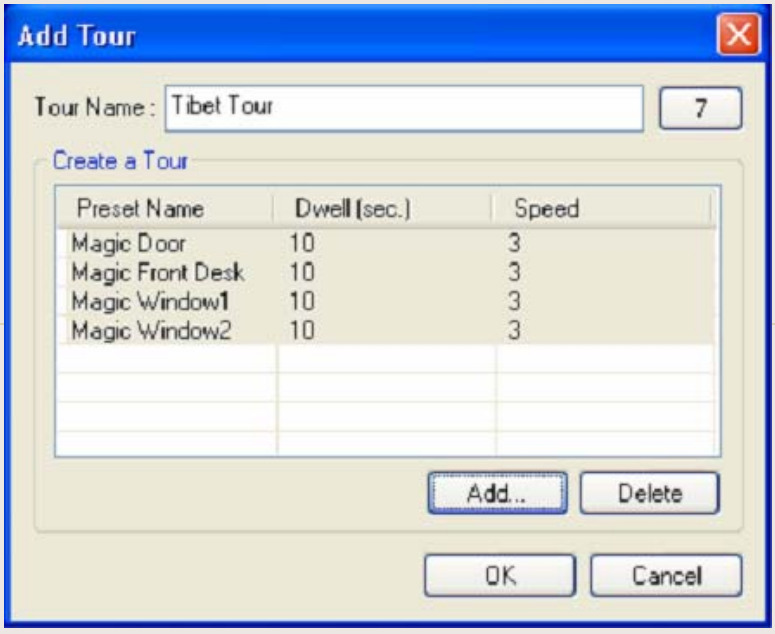
"Touring" is a function that enables a group of selected presets to work repeatedly.



* Steps to Set up a Tour *
1. Click the right mouse.
2. Name the tour.
3. Click on "Add".
4. Select a preset.
5. Click "OK".
6. Repeat the above to have more than 1 preset in the tour.
7. Click the right mouse to run the tour.

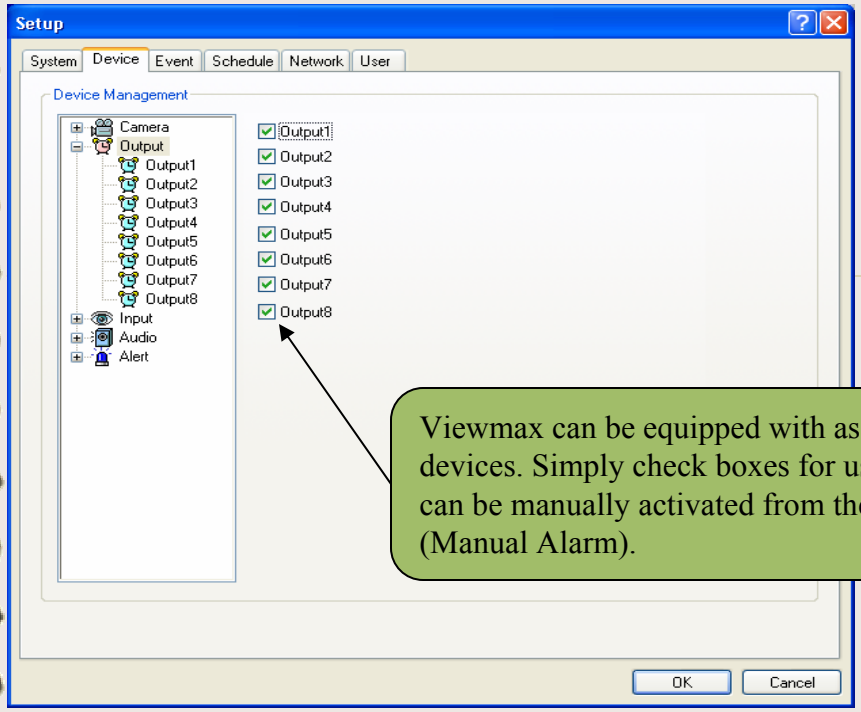


* Dwell: The length of time that a camera will pause before moving to the next preset.
* Speed: Moving speed for a selected preset.

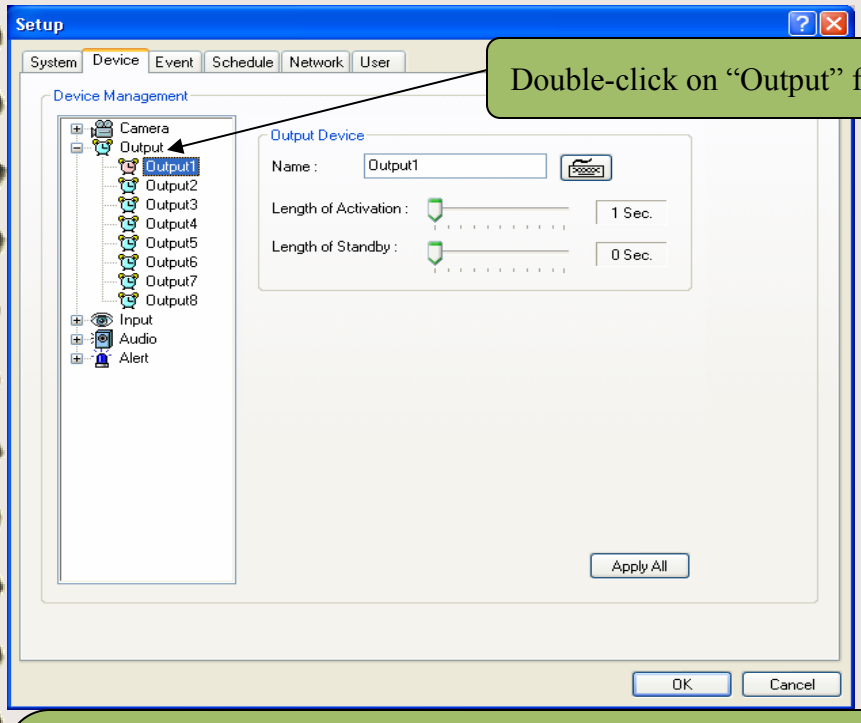

Add Tour
Tour Name :
Tibet Tour
7
Create a Tour
Preset Name
Dwell (sec.)
Speed
Magic Door
10
3
Magic Front Desk
10
3
Magic Window1
10
3
Magic Window2
10
3
Add...
Delete
OK
Cancel

Camera1
No Video Signal
Camera2
No Video Signal
Camera3
No Video Signal
Camera4
No Video Signal
3/31/2002 10:10:08 AM
Server Admin Mode
Zoom
IRIS
Focus
Lights
AUTO
Preset
Touring
Speed
Slow
Fast
Power
1
2
3
4
1
2
Control
Status
Search

Output Device



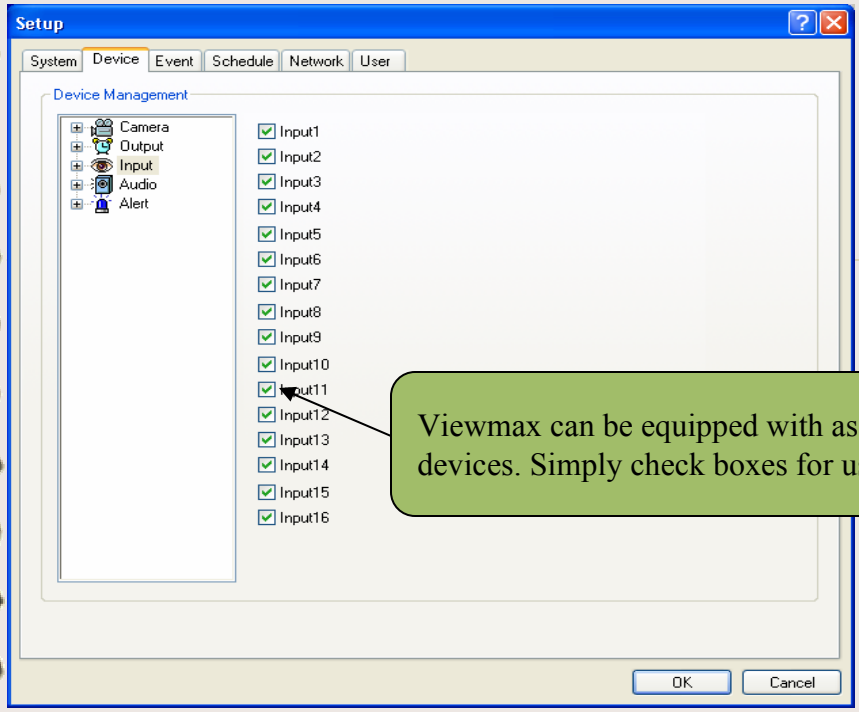
Viewmax can be equipped with as many as 8 output devices. Simply check boxes for use. In addition, outputs can be manually activated from the main control screen (Manual Alarm).



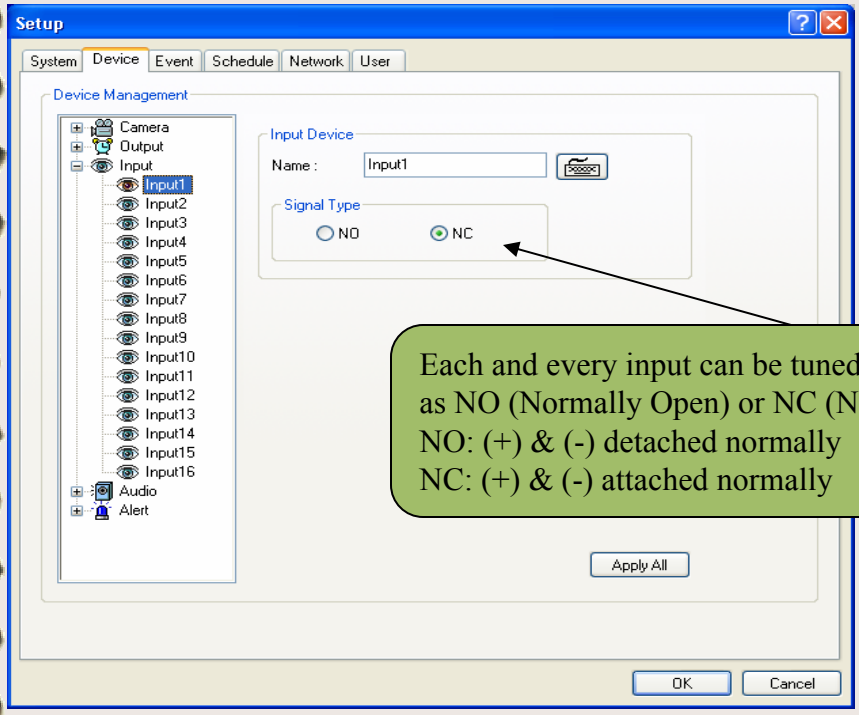
Double-click on “Output” for individual output setup.

* Name: Users can personally name output devices.
* Length of Activation: Users can determine how long a certain output device should be activated in the case of an event (1-60 sec.).
* Length of Standby: It will determine how long a certain output device should be deactivated until its reactivation (0-60 sec.).
* Apply All: The same settings will be applied to the rest of the output devices.

Input Device

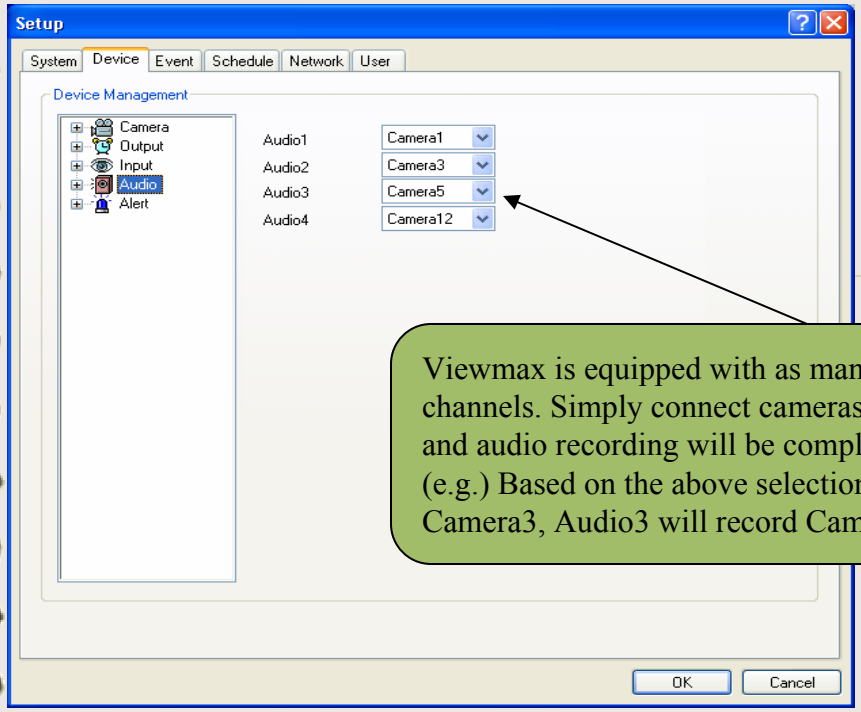


Viewmax can be equipped with as many as 16 input devices. Simply check boxes for use.

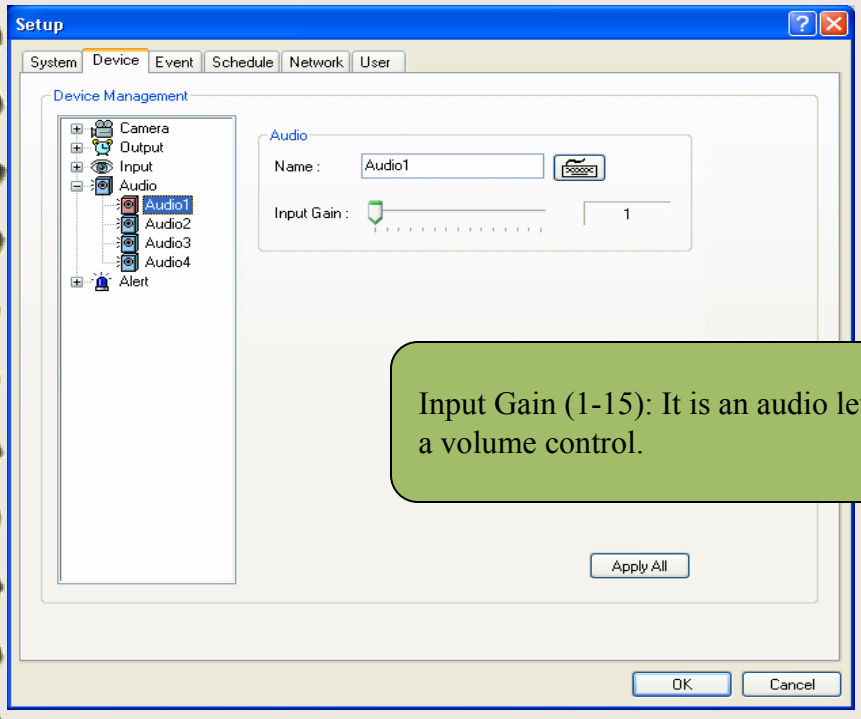


Each and every input can be tuned independently to function as NO (Normally Open) or NC (Normally Closed).
NO: (+) & (-) detached normally
NC: (+) & (-) attached normally

Audio

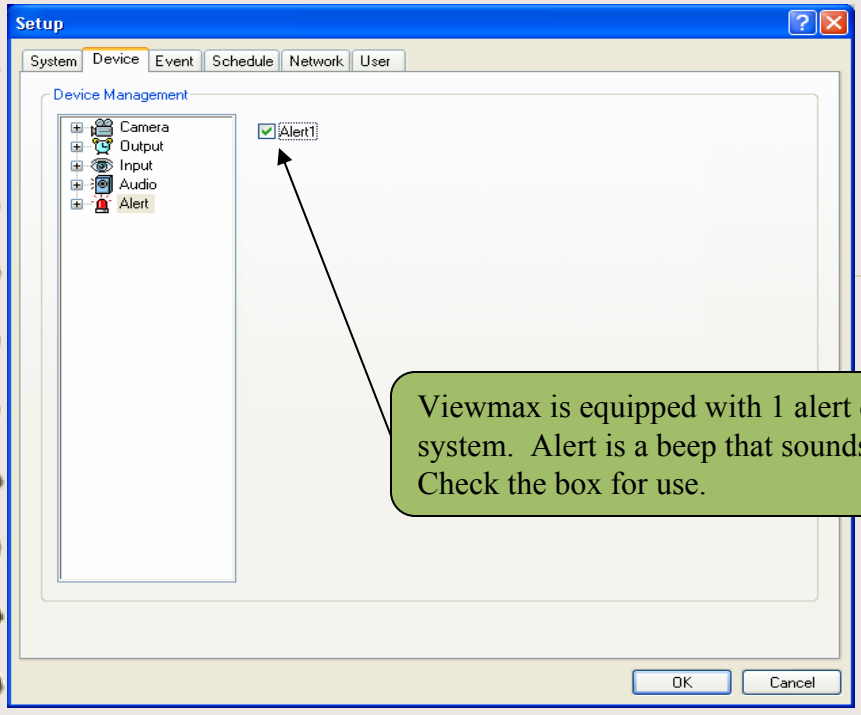


Viewmax is equipped with as many as 8 audio channels. Simply connect cameras to audio channels for use, and audio recording will be completed as chosen.
(e.g.) Based on the above selections, Audio2 will record Camera3, Audio3 will record Camera5, etc.

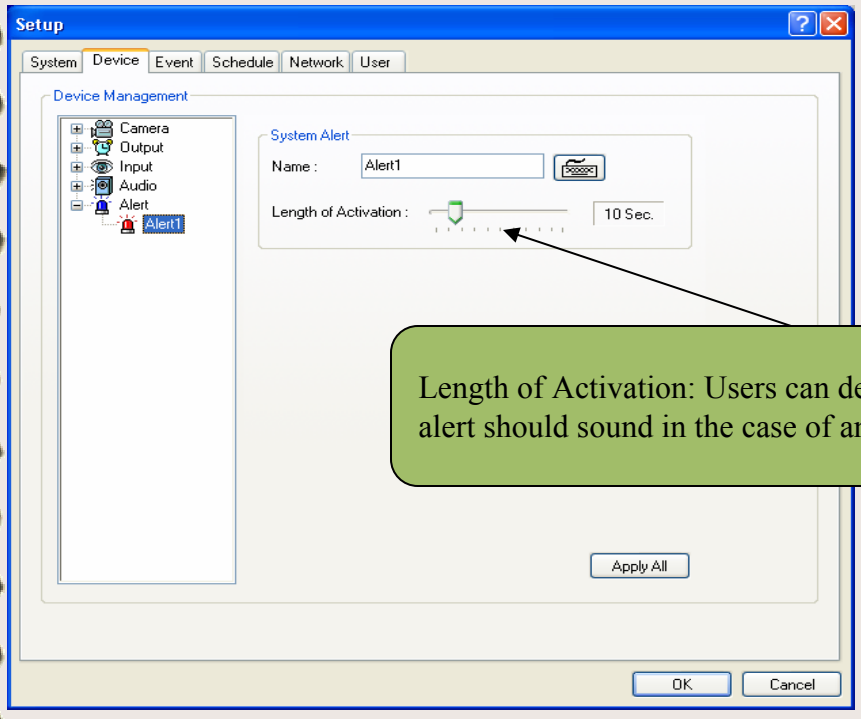


Input Gain (1-15): It is an audio level control similar to a volume control.

Alert



Viewmax is equipped with 1 alert device inside the system. Alert is a beep that sounds in the case of an event. Check the box for use.

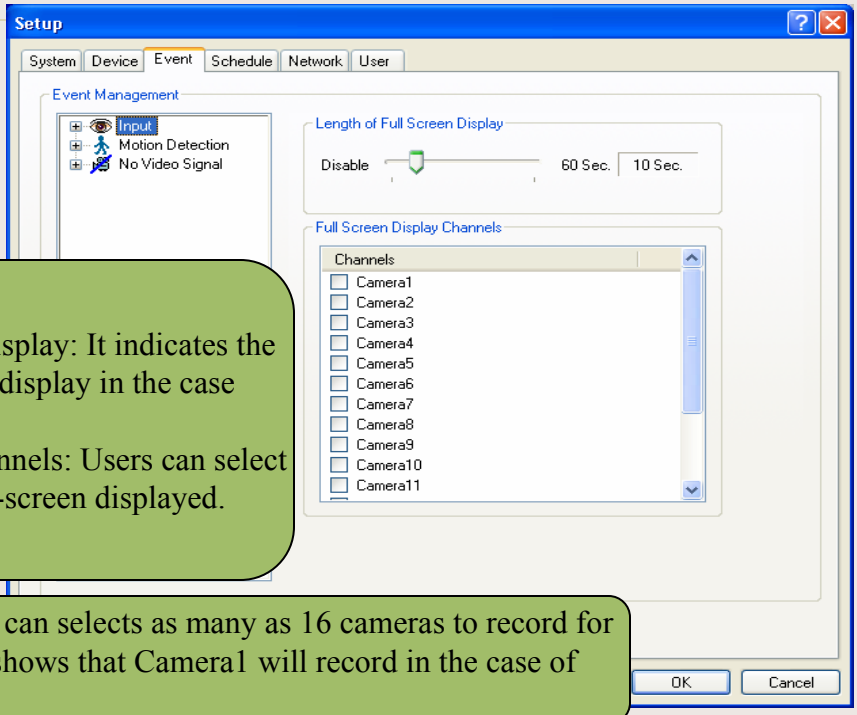


Length of Activation: Users can determine how long the alert should sound in the case of an event (1-60 sec.).

Event

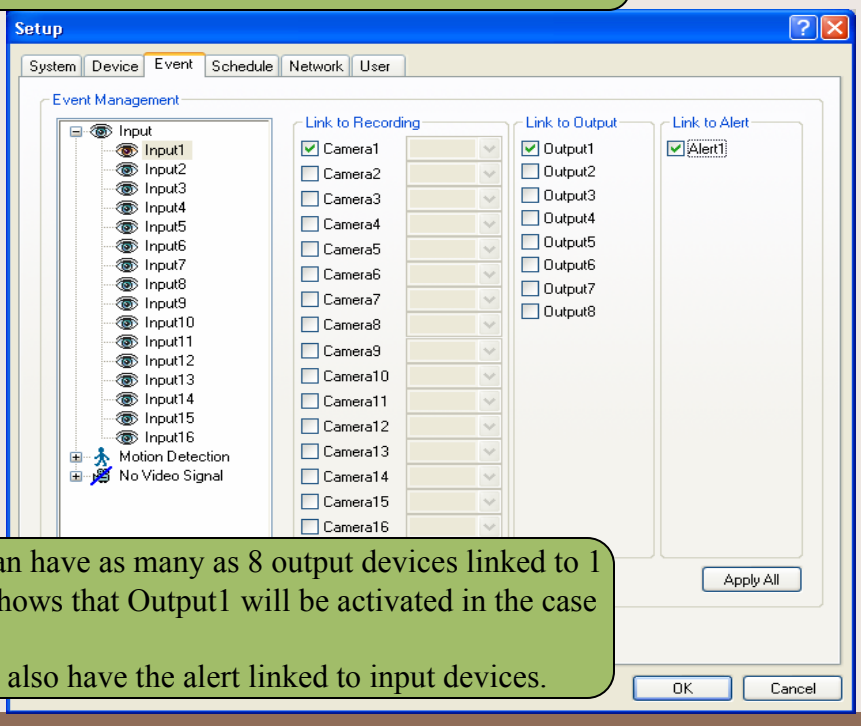
Event consists of 3 different groups; Input, Motion Detection and No Video Signal.
On this menu, users can assign devices to respond to different events.

Input



* Length of Full Screen Display: It indicates the time length for full screen display in the case of input device activation.
* Full Screen Display Channels: Users can select camera channels to be full-screen displayed.

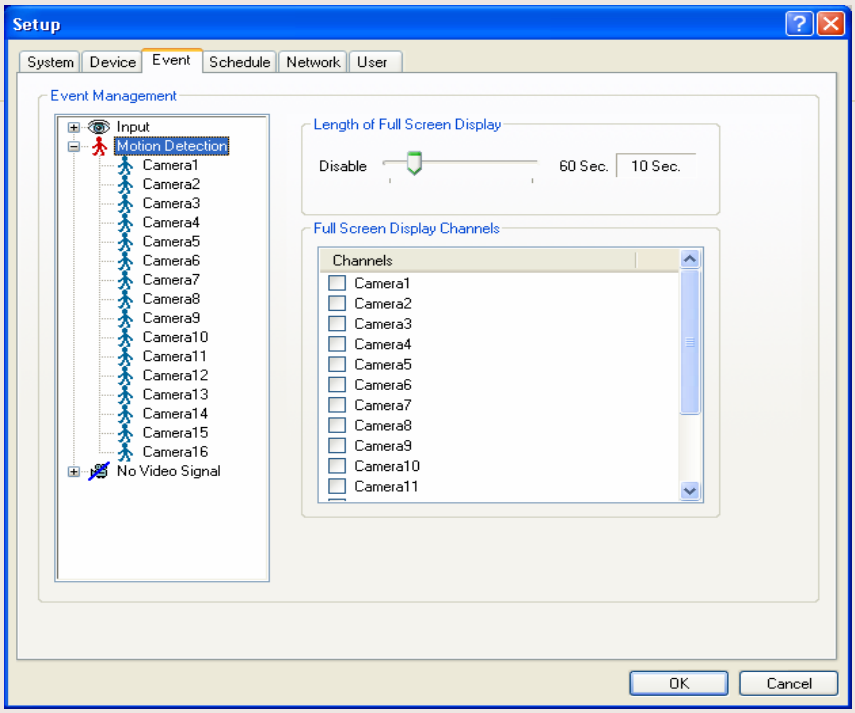
* Link to Recording: Users can selects as many as 16 cameras to record for 1 input device. The below shows that Camera1 will record in the case of Input1 activation.

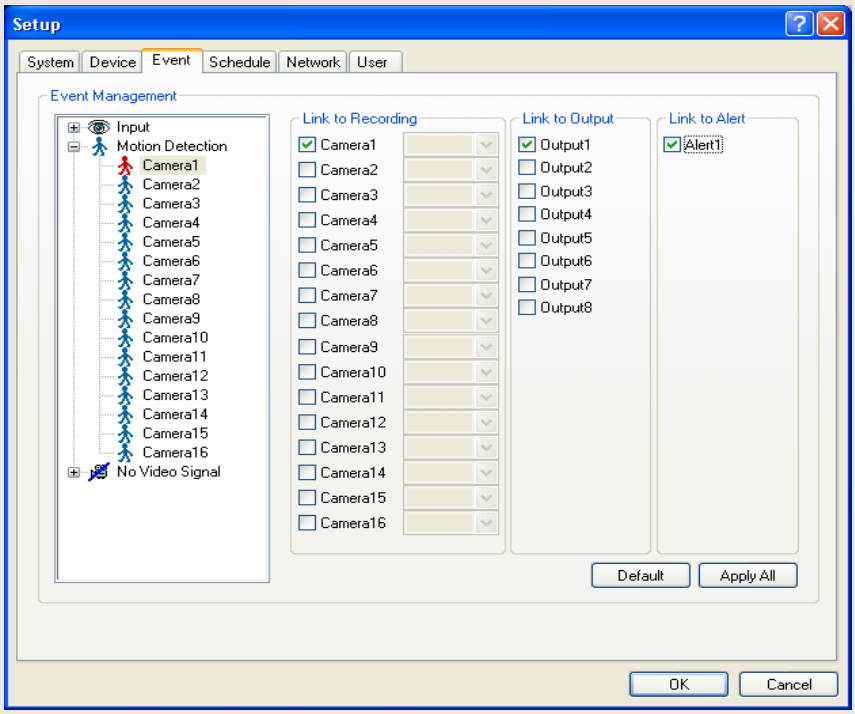


* Link to Output: Users can have as many as 8 output devices linked to 1 Input device. The above shows that Output1 will be activated in the case Of Input1 activation.
* Link to Alert: Users can also have the alert linked to input devices.

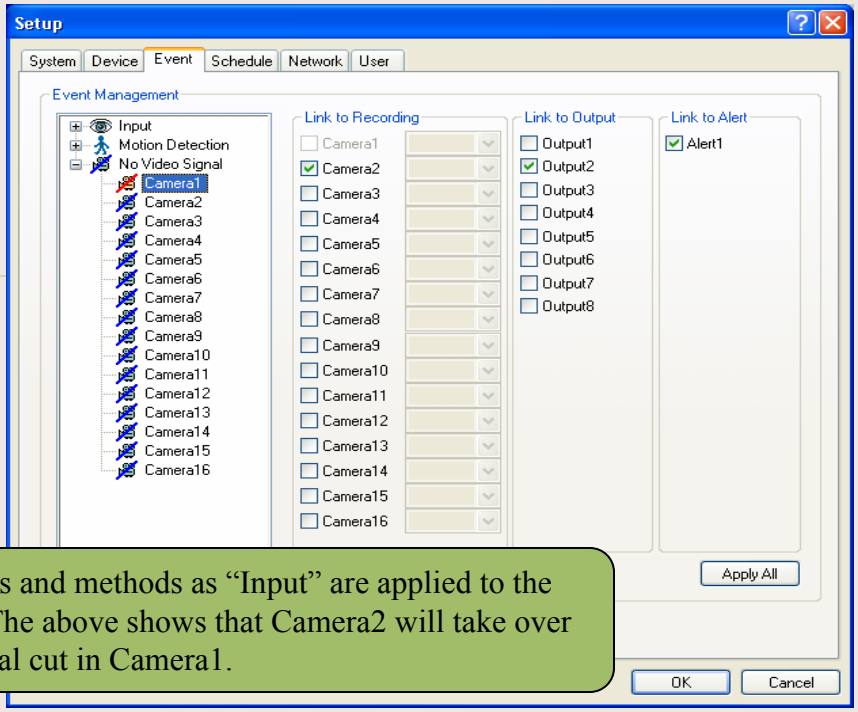
Motion Detection

The same identical concepts and methods as “Input” are applied to the “Motion Detection” setup.





No Video Signal

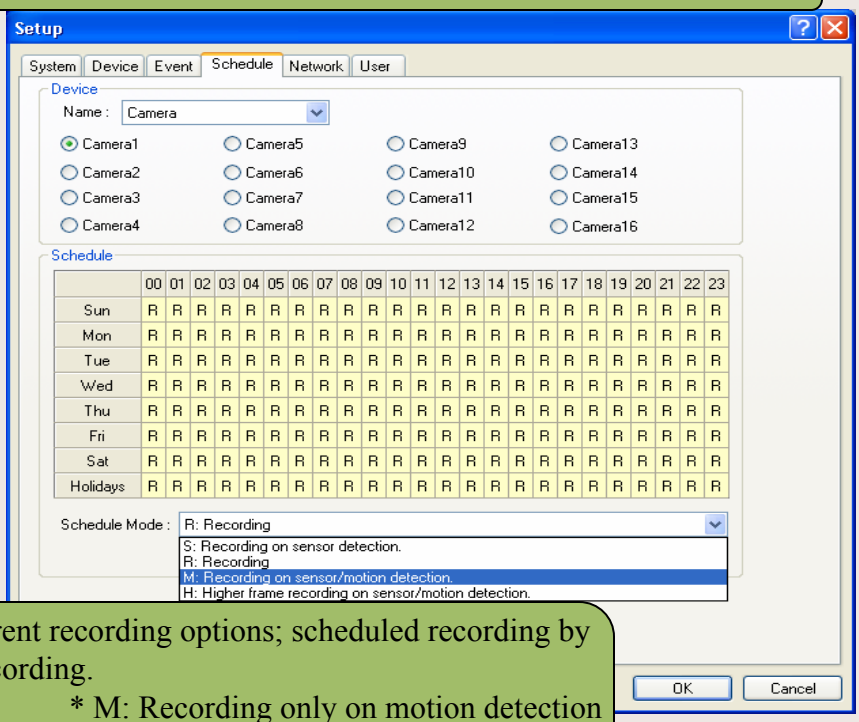


The same identical concepts and methods as "Input" are applied to the "No Video Signal" setup. The above shows that Camera2 will take over and record if there is a signal cut in Camera1.

Schedule

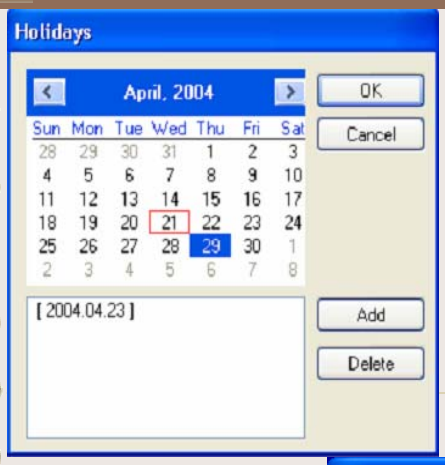
"Schedule" enables users to assign each camera, input or output its own activities.

Camera



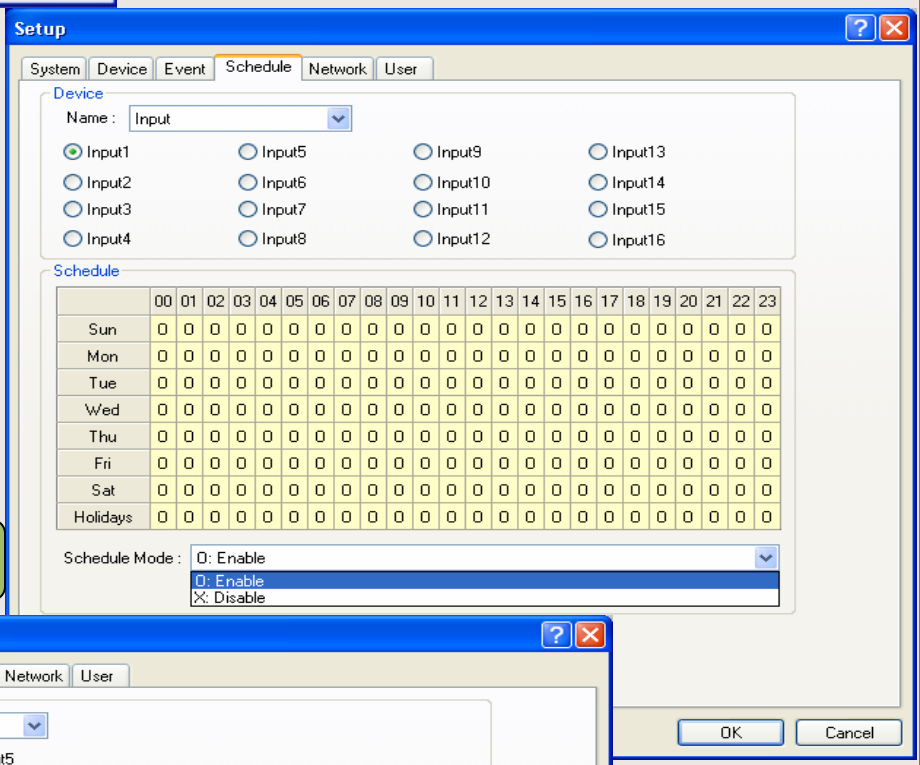
Each camera can have different recording options; scheduled recording by time & day and selective recording.

* R: Recording at all times
* M: Recording only on motion detection
* S: Recording only on sensor detection
* H: Recording at all times and higher frame recording on sensor/motion detection

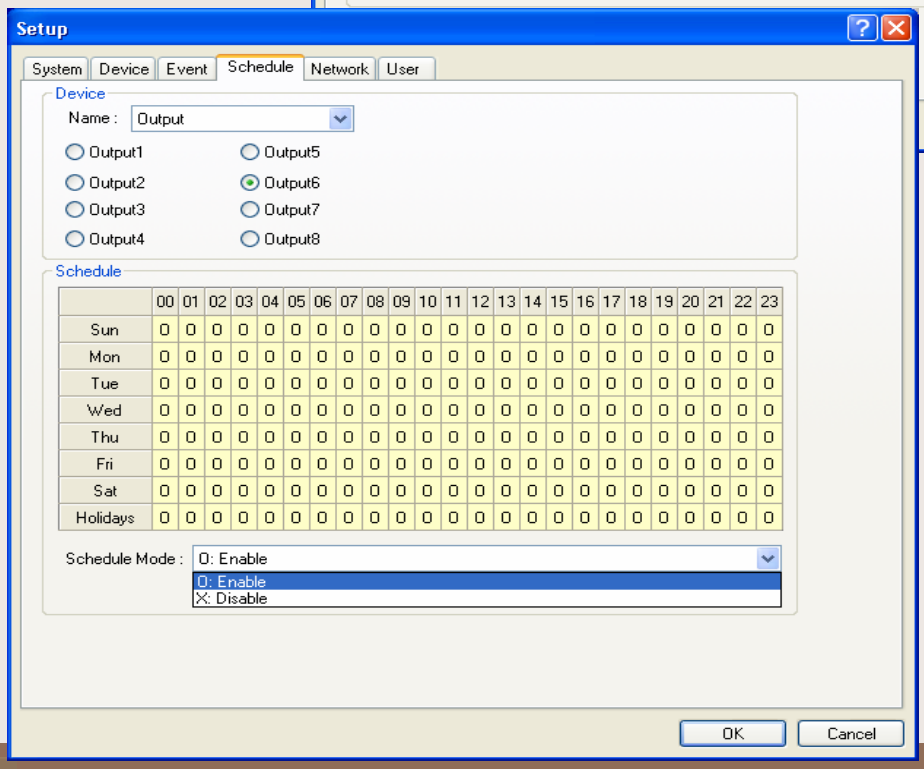


Holiday recording schedule set at the bottom of the “Schedule” table will be applied to selected dates.

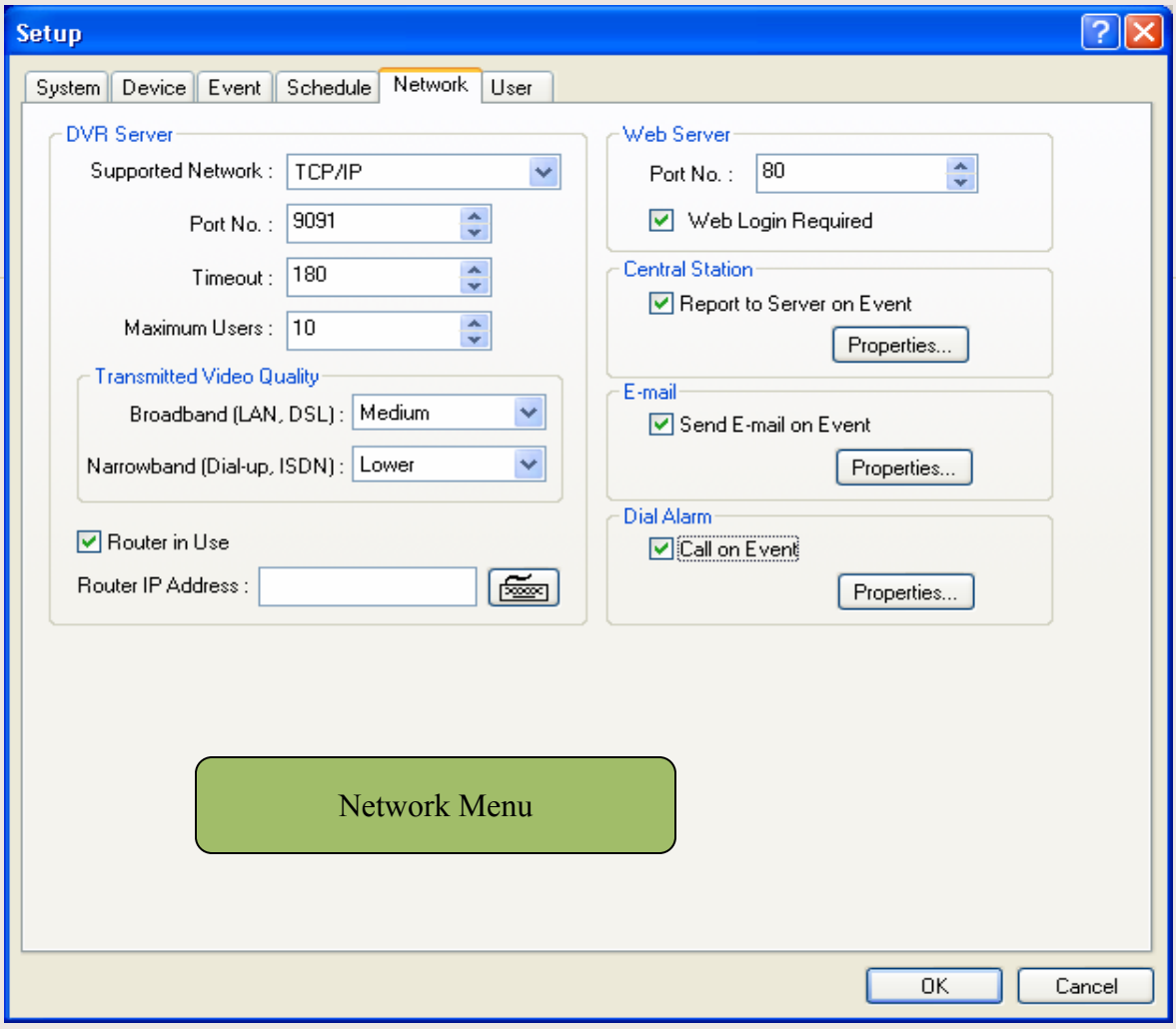
Input



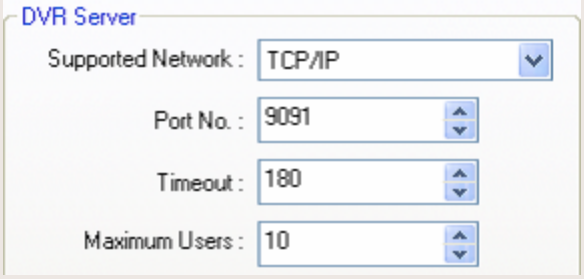
Input



Network



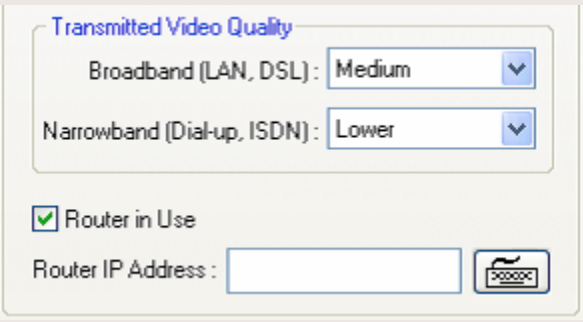
Network Menu



DVR Server

* Supported Network:
1. TCP/IP - Connecting to a DVR Server from a Client using Lan or DSL
2. PSTN – Connecting to a DVR Server from a Client using a PSTN or ISDN modem
3. None – Not allowed to connect to a DVR Server remotely

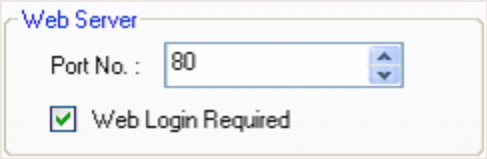
* Port No.: The default port number is 9091.
* Timeout: The time length of trials to connect to a DVR Server from a Client
* Maximum Users: The maximum number of users that can be logged in remotely.



* Transmitted Video Quality: Users can select video quality to be transmitted to a Client. As a reminder, the higher video quality gets, the slower network transmission speed becomes. Therefore, it is often recommended to select low video quality when using "Narrowband".

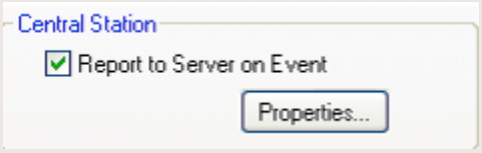
Router in Use: If there is a router in use, follow the steps below:
Check the box above. → Type in router's IP address → Go to router's setup → Register DVR's IP address.

Web Server

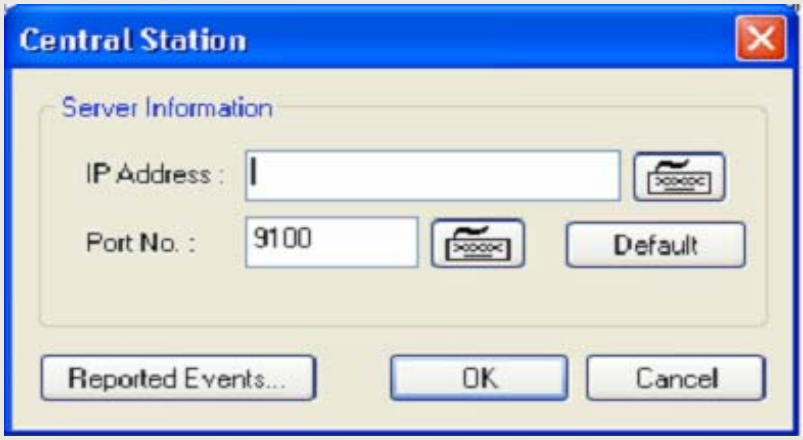


* Port No.: Fixed HTTP Port No.
* Web Login Required: If the box is checked, login is required as a user tries to connect to a DVR server using the web browser. If the box is NOT checked, a user will be automatically logged in as "anonymous".

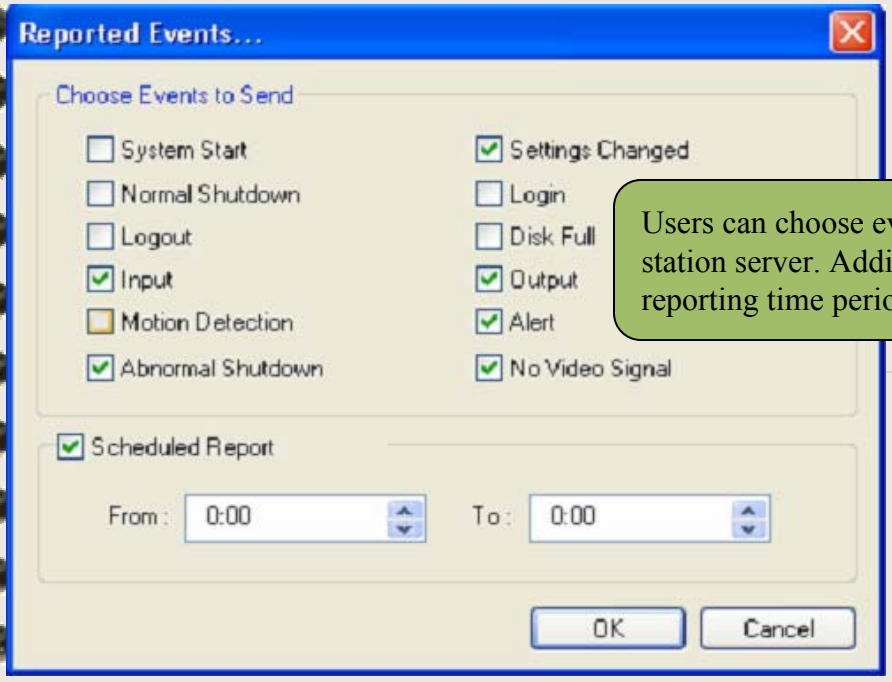
Central Station



" Central Station" is a function that enables a Client with a static IP to manage multi DVR sites. Check the box and click on "Properties" for setup.
* Note: "cstation_server.exe" must be installed on Central Station Server.

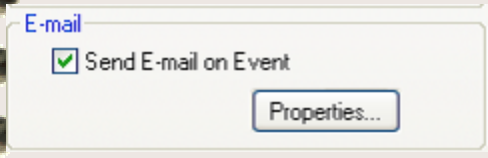


Type in the IP address of Central Station Server (Client with Static IP) and click on "Reported Events" for more setup.

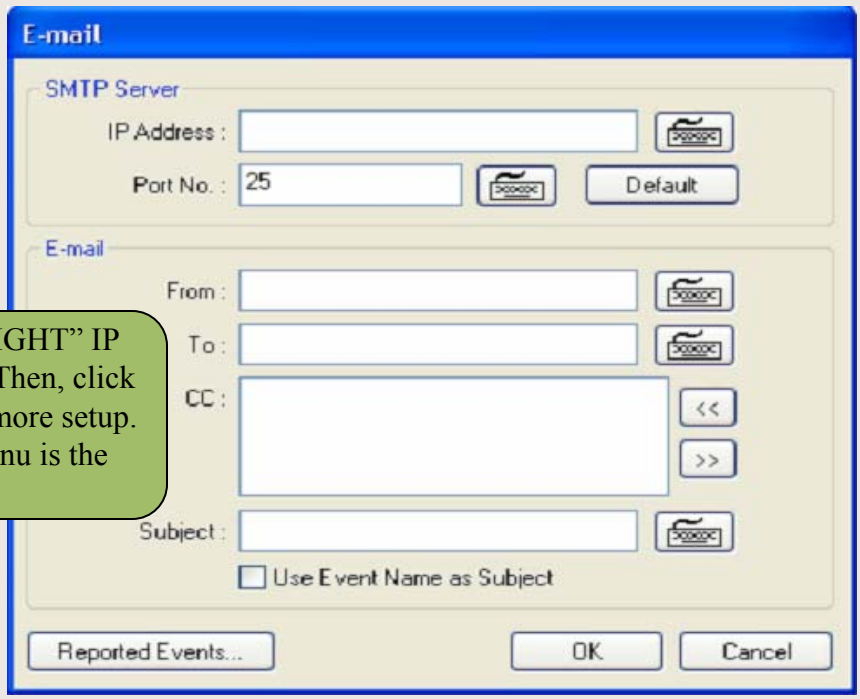


Users can choose events to report to a central station server. Additionally, users can set reporting time period.

E-mail

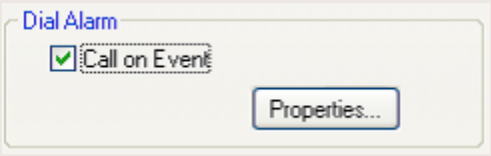


E-mail is a function that enables DVR to send out e-mails when selected events occur. Check the box and click on “Properties” for setup.

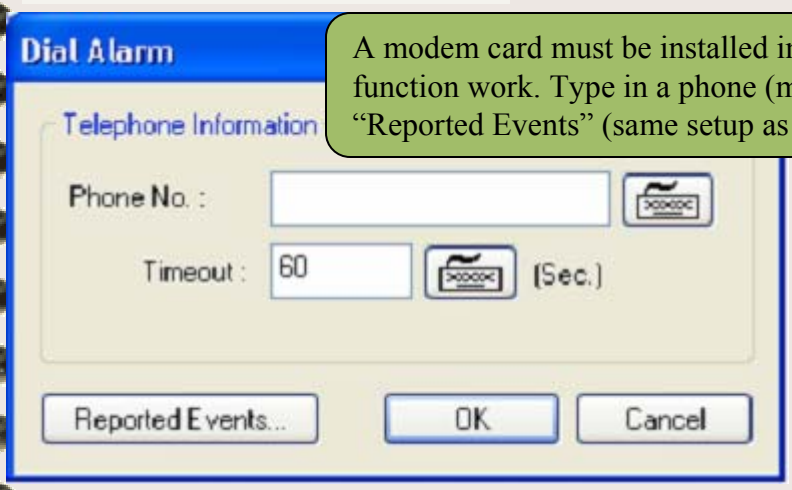


Make sure to put in the “RIGHT” IP Address of SMTP Server. Then, click on “Reported Events” for more setup. The “Reported Events” menu is the same as Central Station.

Dial Alarm

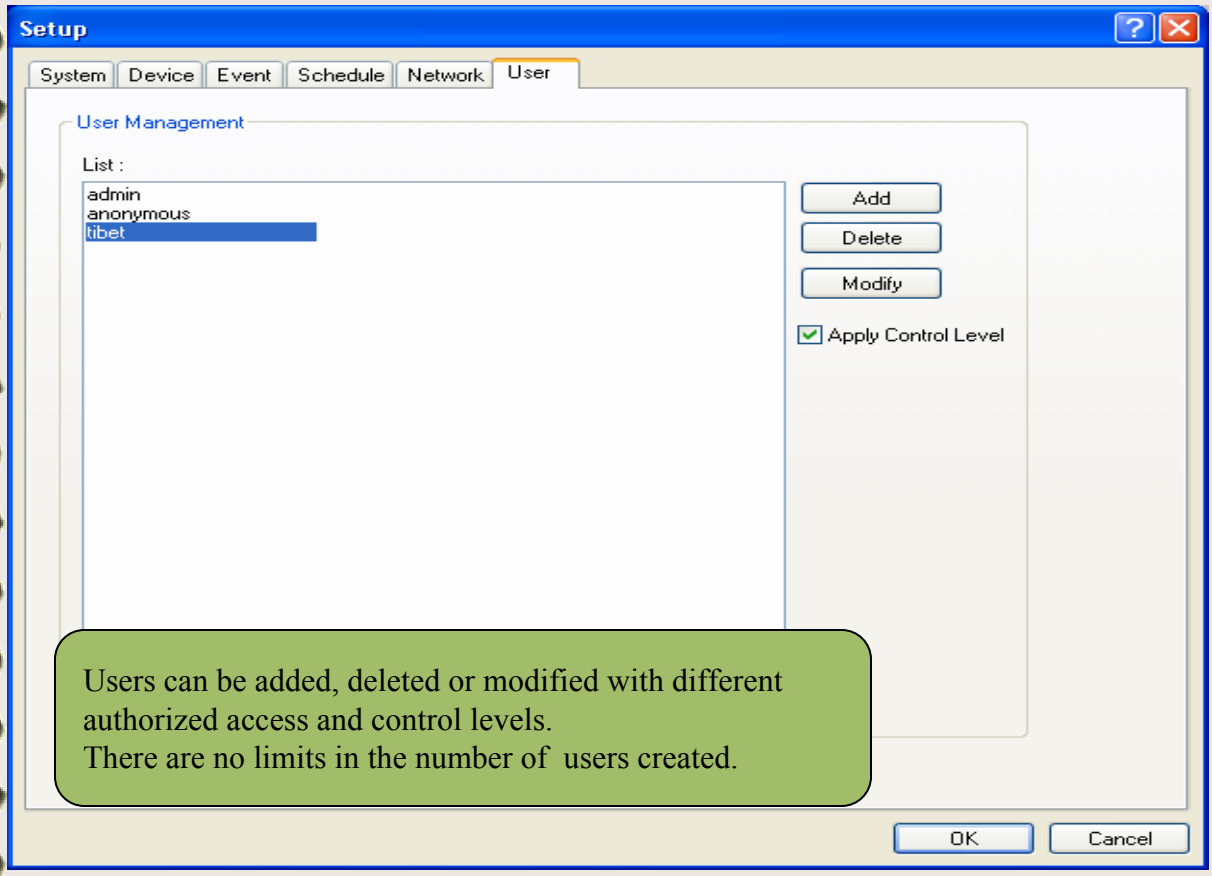


"Dial Alarm" is a function that enables DVR to give a registered user a call and leave its number. Then, the user will know something unusual is happening at the site. Check the box and click on "Properties" for setup.

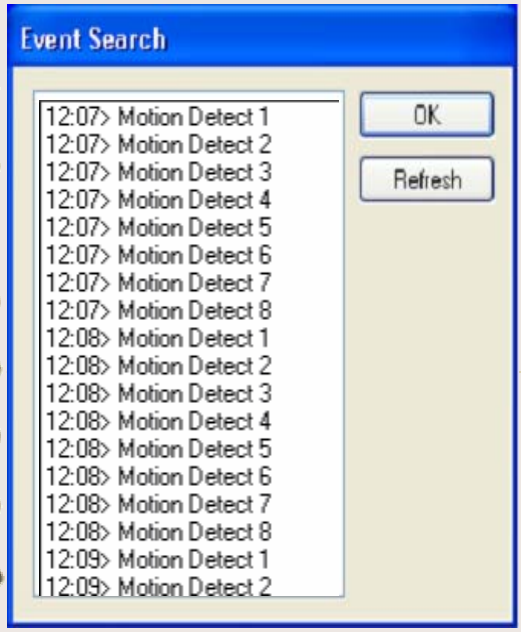


A modem card must be installed inside the system to make this function work. Type in a phone (mobile) number to report. Click on "Reported Events" (same setup as Central Station) for more setup.

User

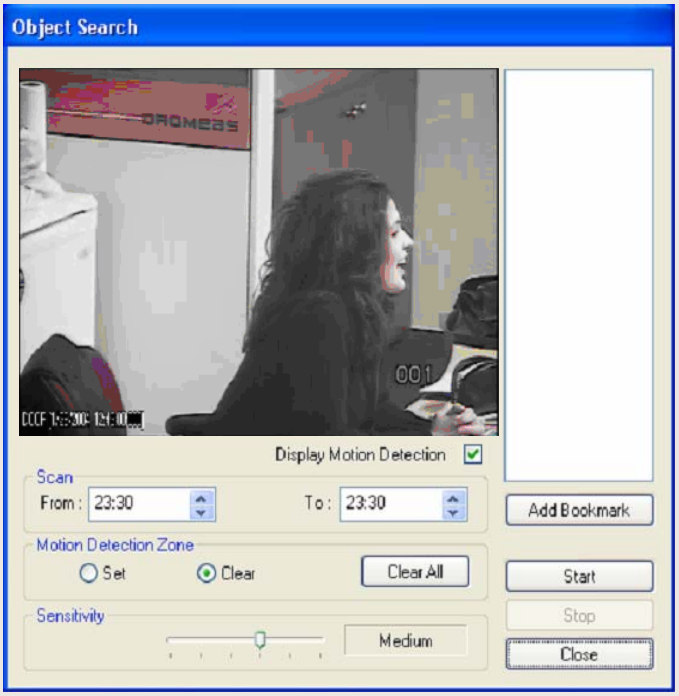


Users can be added, deleted or modified with different authorized access and control levels.
There are no limits in the number of users created.

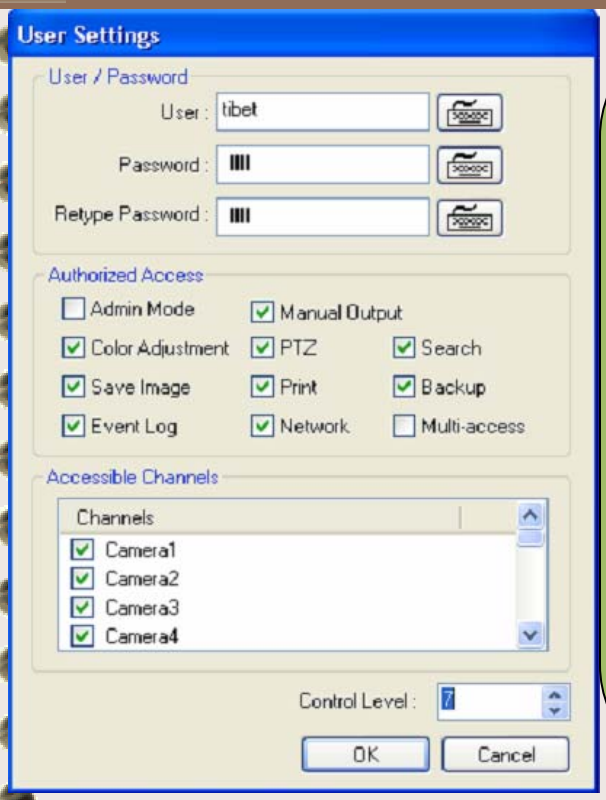


Choose one event from the list and click “OK” for Event Search. The list will be updated by clicking on the “Refresh” button.

[Object Search]



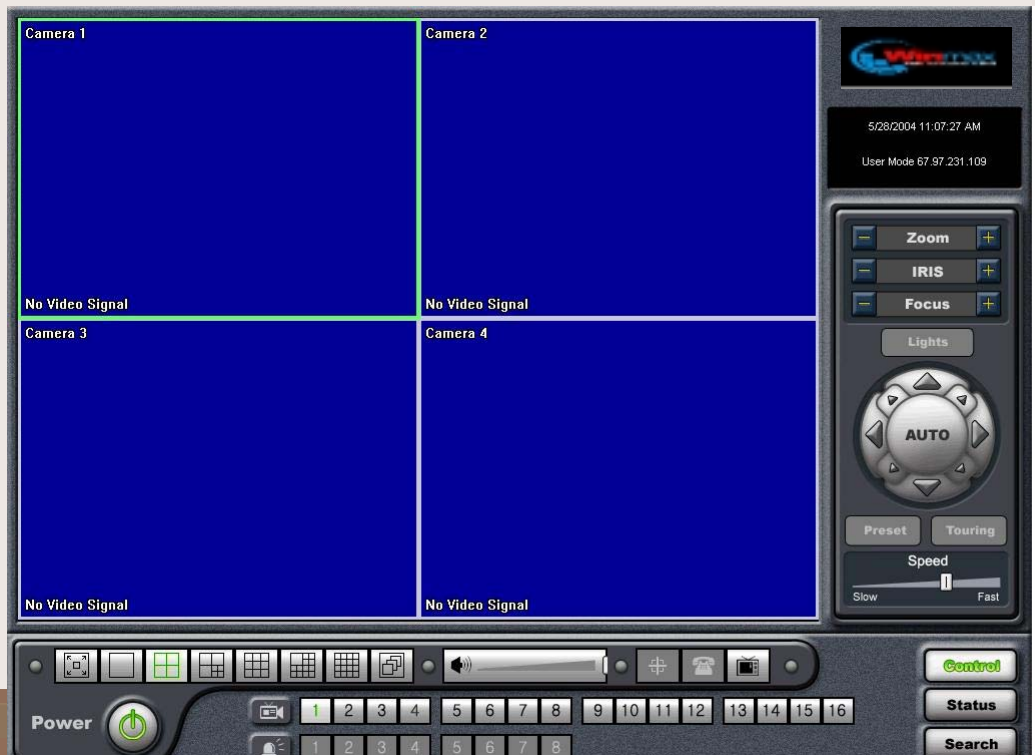
Object Search is only to search certain selected objects for a certain period of time.
Scan: Set the time period for object search
Motion Detection Zone: Select “Set” and mark areas for object search by dragging the mouse. “Clear” is used when erasing certain areas inside motion detection zones.
Sensitivity: It means “Motion Detection Sensitivity”.
Clear All: It clears all the motion detection zones set.



* Authorized Access: Checked functions will be allowed to access remotely.
* Accessible Channels: Checked channels will be allow to view remotely.
* Control Level: A user with the lowest number of control level will be allowed to have the first priority to set up, control, etc remotely.
* Admin Mode: A user who can go into the setup and program (given the same authorization as "Admin"). Only ONE user with "Admin Mode" can log in remotely.
* Network: If checked, a user can have access Remotely.
* Multi-access: If checked, multi-users with the same user name can log in remotely at the same time.

CHAPTER 4
View Log Application (Status)

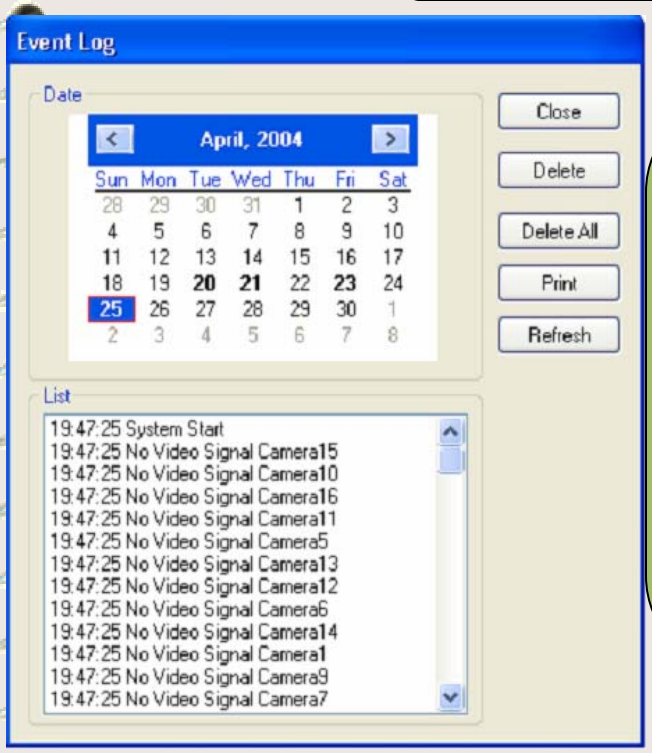
Status Screen



4 Screen Features

Recording Camera: It shows whether or not cameras are being recording.
Sensor Detection: It shows whether or not sensor are being activated.
Motion Detection: It shows whether or not motions are being detected.
Alarm: It shows whether or not alarms are being activated.
HDD Capacity: It shows how much capacity has been used for recording.
Event: It shows a list of events that have occurred.
Event Log: It is a function that enables users to view all the previous events.

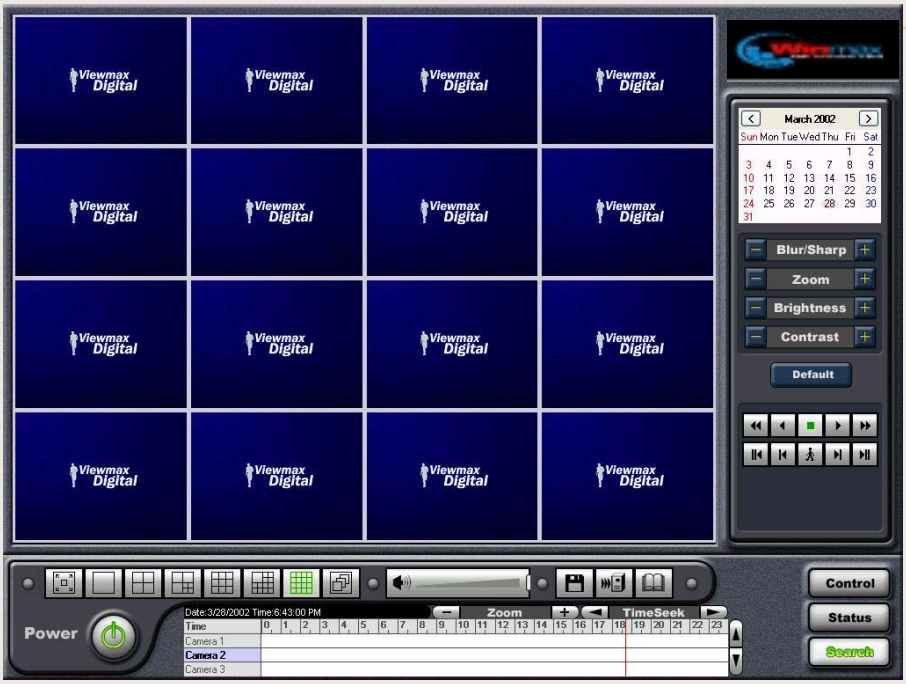
4 Event Log


Event Log
Date
April, 2004
Sun Mon Tue Wed Thu Fri Sat
28 29 30 31 1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 1
2 3 4 5 6 7 8
Close
Delete
Delete All
Print
Refresh
List
19:47:25 System Start
19:47:25 No Video Signal Camera15
19:47:25 No Video Signal Camera10
19:47:25 No Video Signal Camera16
19:47:25 No Video Signal Camera11
19:47:25 No Video Signal Camera5
19:47:25 No Video Signal Camera13
19:47:25 No Video Signal Camera12
19:47:25 No Video Signal Camera6
19:47:25 No Video Signal Camera14
19:47:25 No Video Signal Camera1
19:47:25 No Video Signal Camera9
19:47:25 No Video Signal Camera7

* Date: Any dates with events will be marked in bold numbers.
* List: All events for a certain selected date will be shown.
* Delete All: If clicked, all the previous records will be deleted.
* Delete: If clicked, only the events for a certain selected date will be deleted.
* Refresh: If clicked, events will be updated.

CHAPTER 5
Playback Application (Search)

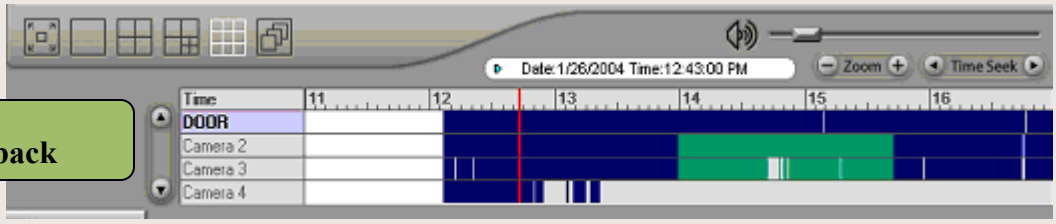
5 Search Screen



5 Search Features 1

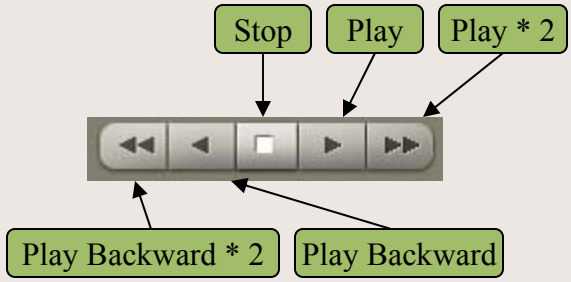
Calendar: Any dates with recorded data will be marked in bold numbers.
Blur/Sharp/Normal: Buttons to adjust sharpness of images
Zoom: Buttons to zoom in/out the screen
Brightness: buttons to adjust brightness of the screen
Contrast: buttons to adjust contrast
Default: Default for Zoom/Brightness/Contrast

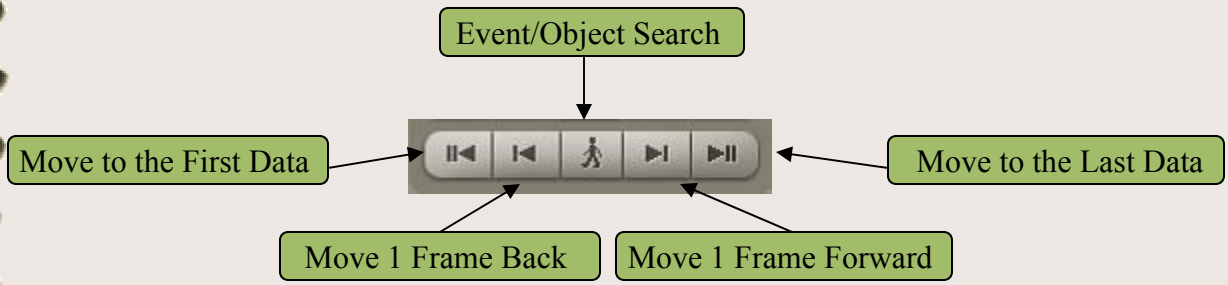
5 Search Features 2



5 Playback

For playback, simply select a date, a screen mode (1, 4, 9, 16, etc.), time by one click on the time bar and click the play button.
What different colors mean on the time bar: Blue - recorded data by sensor & motion Detection; Purple - recorded data by 24-hour-recording; White – no recorded data in all cameras; Gray – no recorded data for some cameras; Green – Blue + audio; Light Green - Purple + audio

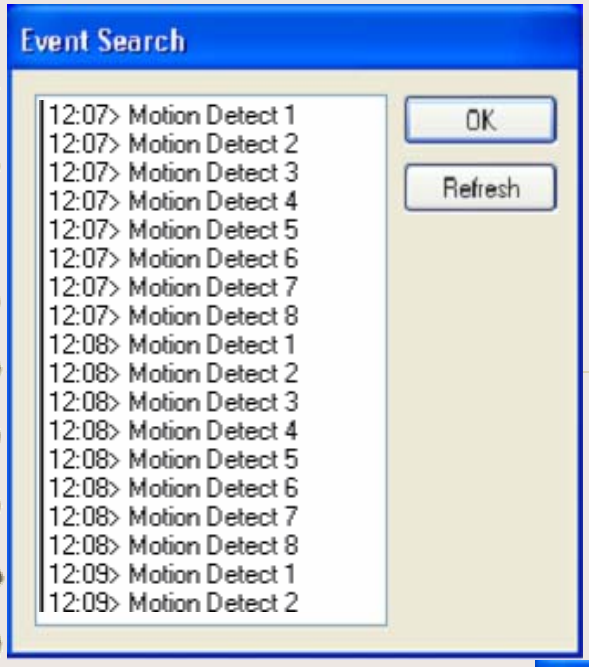




5 Event/Object Search

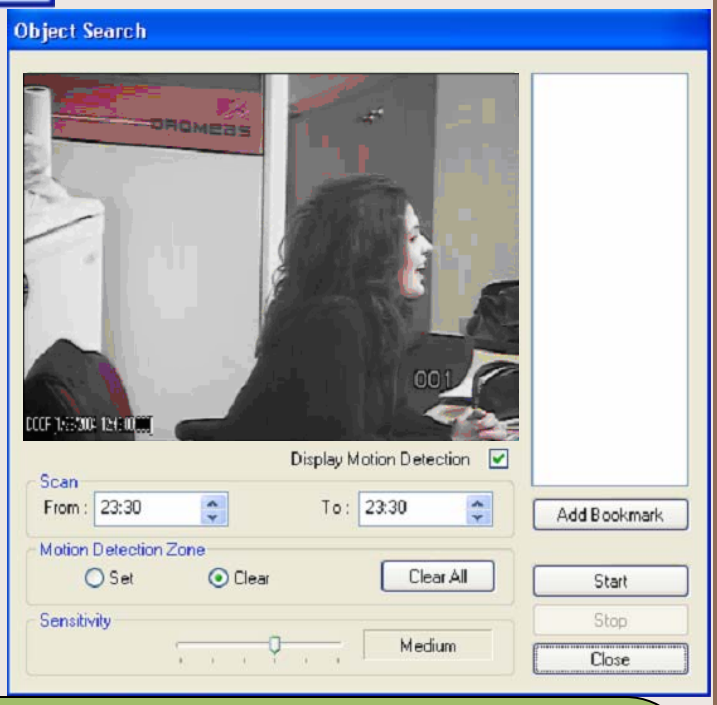
[Event Search]

Click the Event/Object Search button and select “Event”.

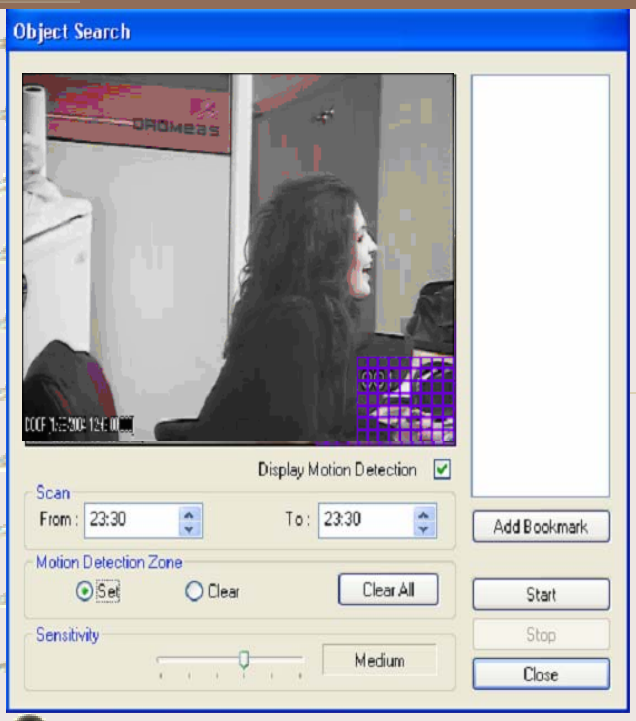


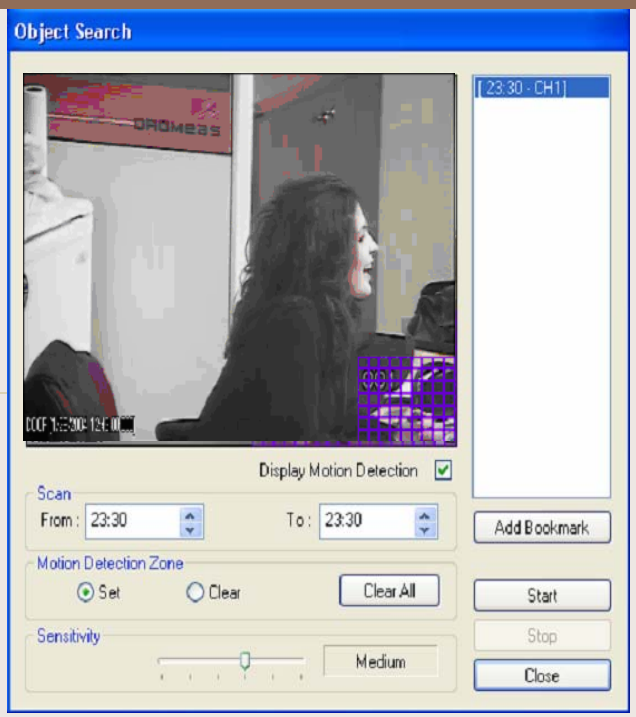
Select one event from the list and click “OK”, and the selected event will be displayed. Click “Refresh” to update the list.

[Object Search]



Object Search is only to search certain selected objects for a certain period of time.
* Scan: Set the time period for object search.
* Motion Detection Zone: Select “Set”and mark areas by dragging the mouse. “Clear” is used when erasing certain areas inside motion detection zones.
* Sensitivity: It means “Motion Detection Sensitivity”.
* Display Motion Detection: If checked, green motion detection blocks will be displayed.
* Clear All: Click “Clear All” to clear all the zones set.
* Start: Click “Start” for object search.
* Add Bookmark: Select a searched data from the list and click “Add Bookmark”, and it will be stored in the Bookmark (Favorites).





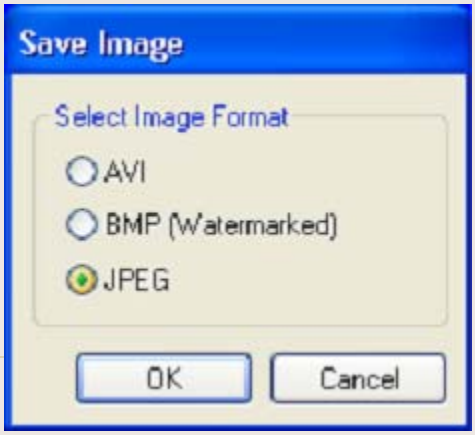
5 Bookmark & Go To

Bookmark (Favorites): Added data from " Object Search" are stored here.

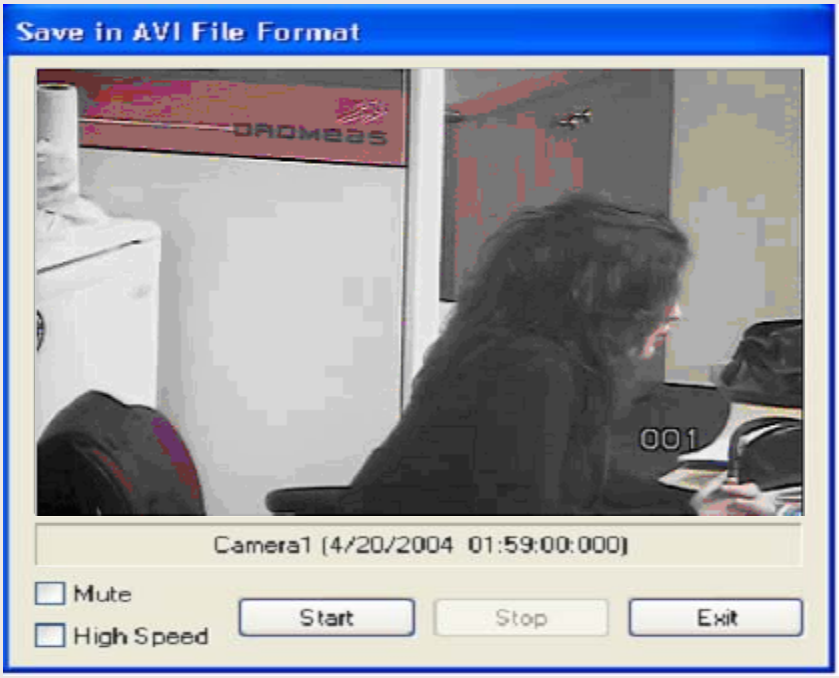
Go To: It enables users to "Go To" the time set automatically and search.

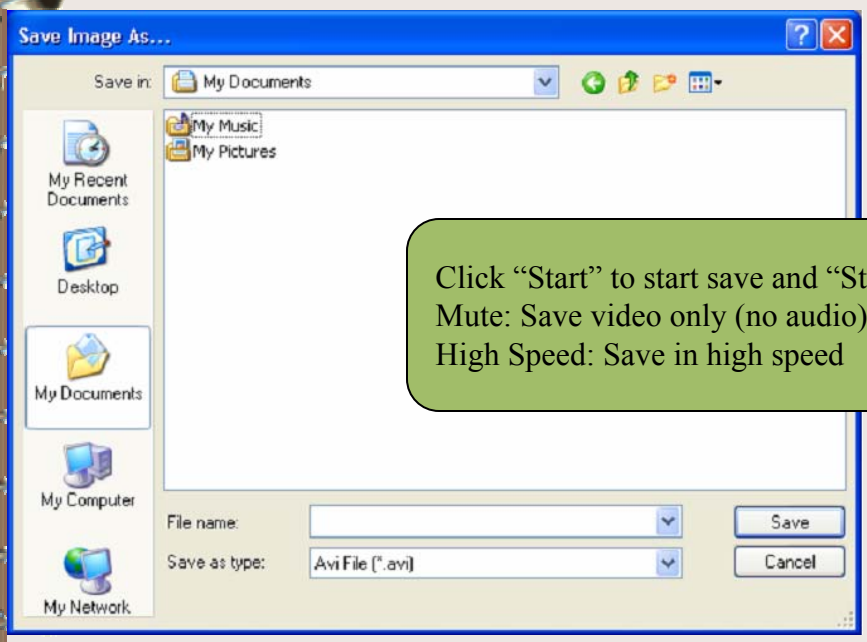
5 Save

AVI: For saving motion pictures and audio
BMP: For saving images. Watermarked images can be saved.
JPEG: For saving regular still images. Quality is not as good as BMP but less HDD is used.



[Save in AVI Format]



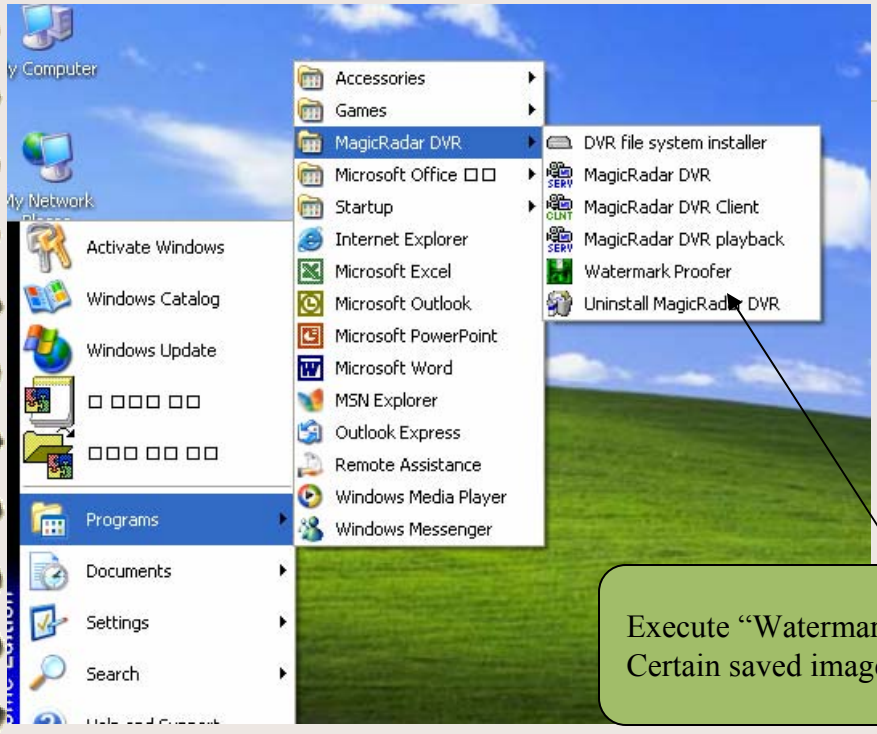


Click “Start” to start save and “Stop” to stop save.
Mute: Save video only (no audio)
High Speed: Save in high speed

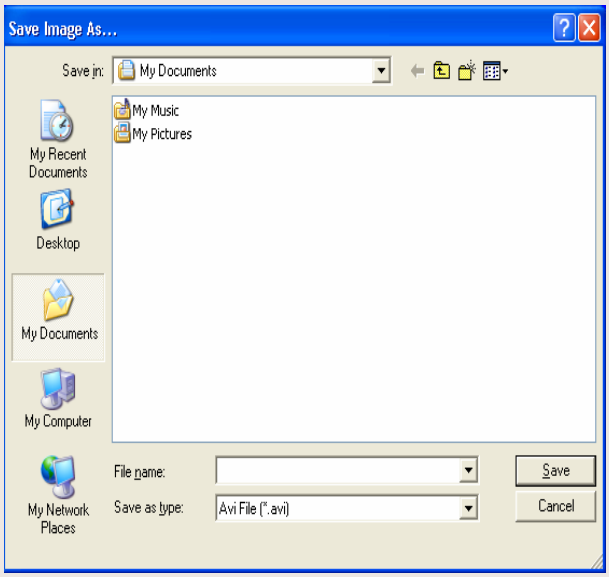
[Save in BMP Format]

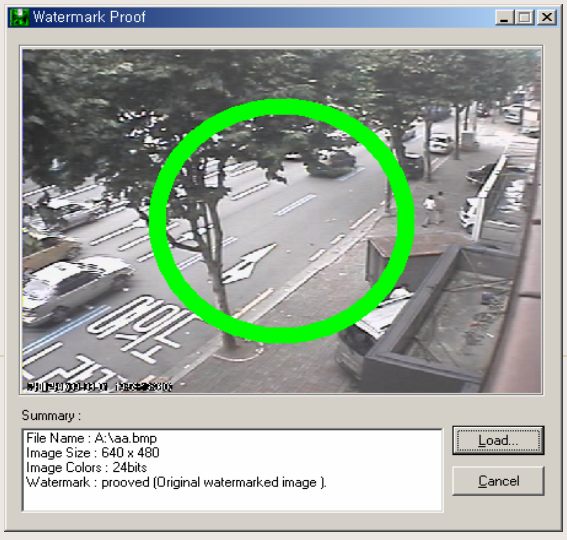
Click “Start”and select “BMP” as you save images.
Saved images can be checked using “Watermark Proofer”.

[Watermark Proofer]



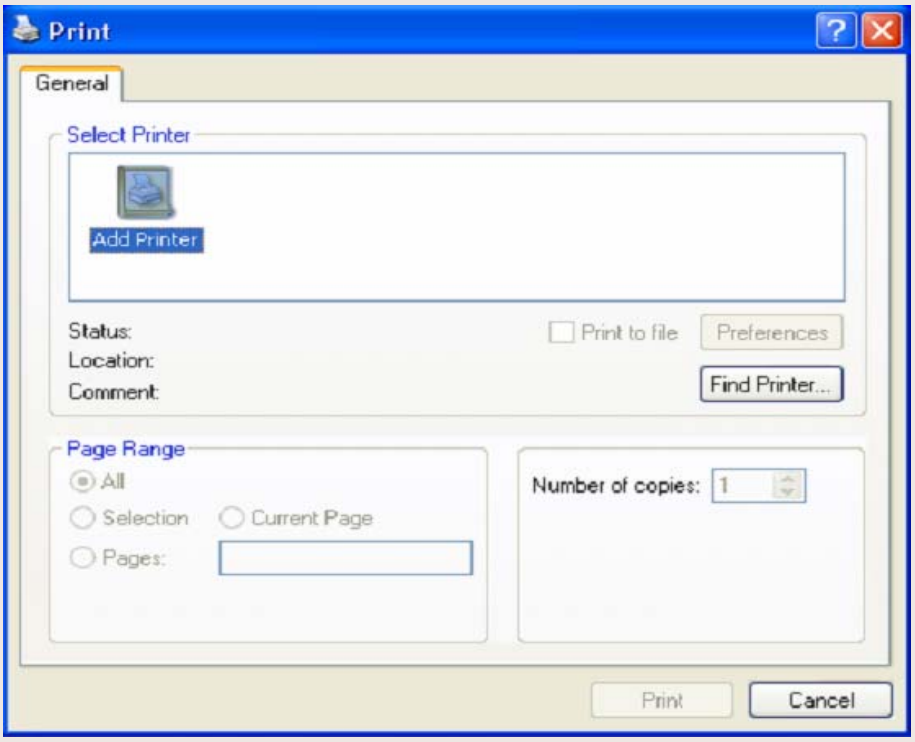
Execute “Watermark Proofer” and check if Certain saved images are forged or not.





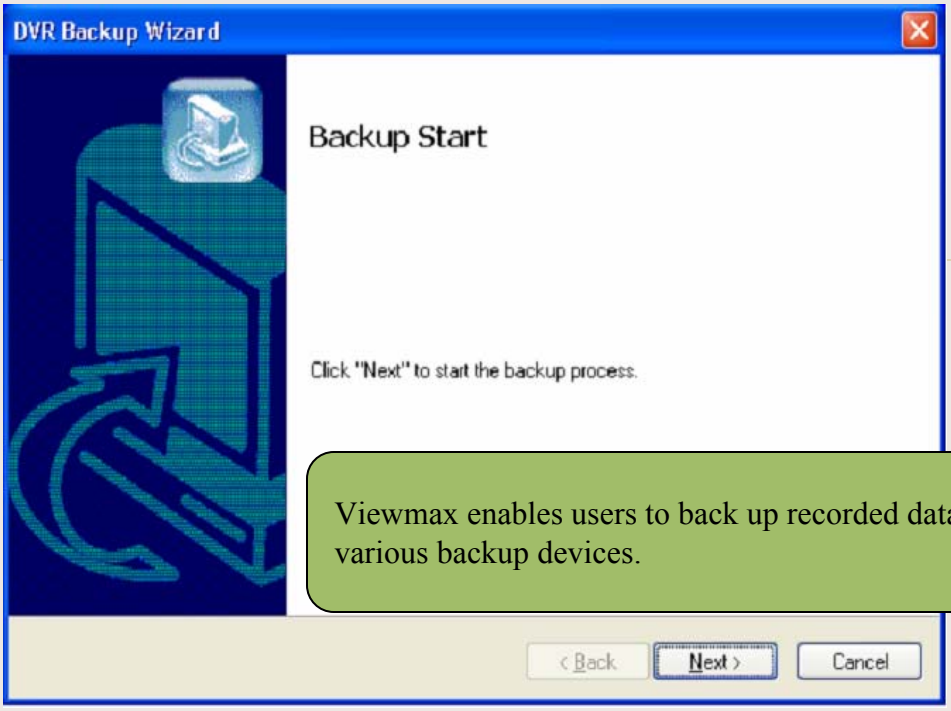
[Save in JPEG Format] ⇨ Click “Start” and select “JPEG” as you save images.

5 Print

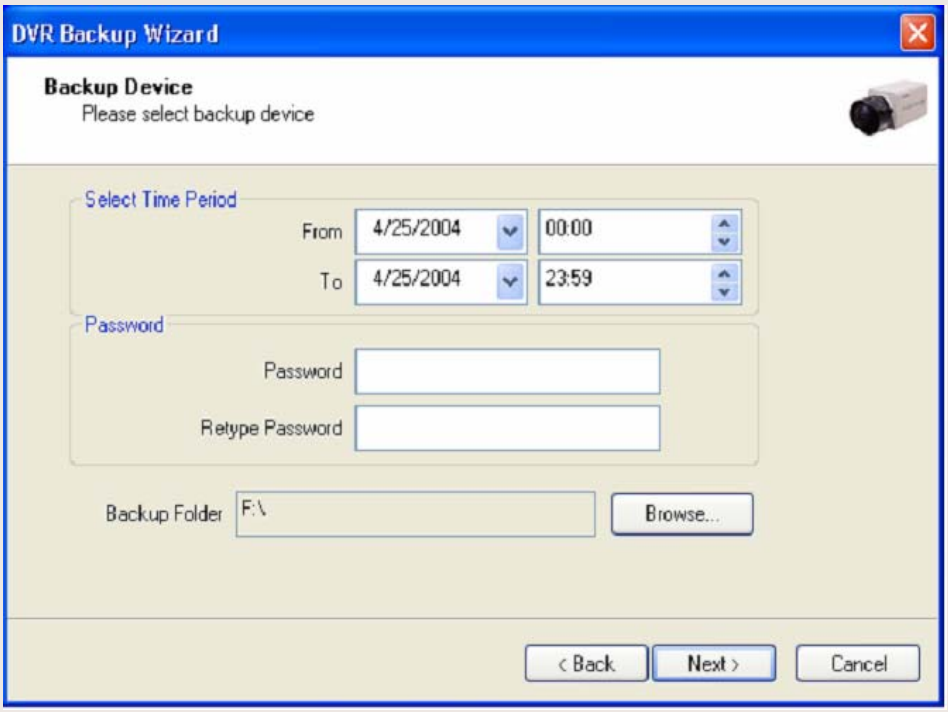


Click the “Print” button and follow the same printing procedure as you would normally print out documents.

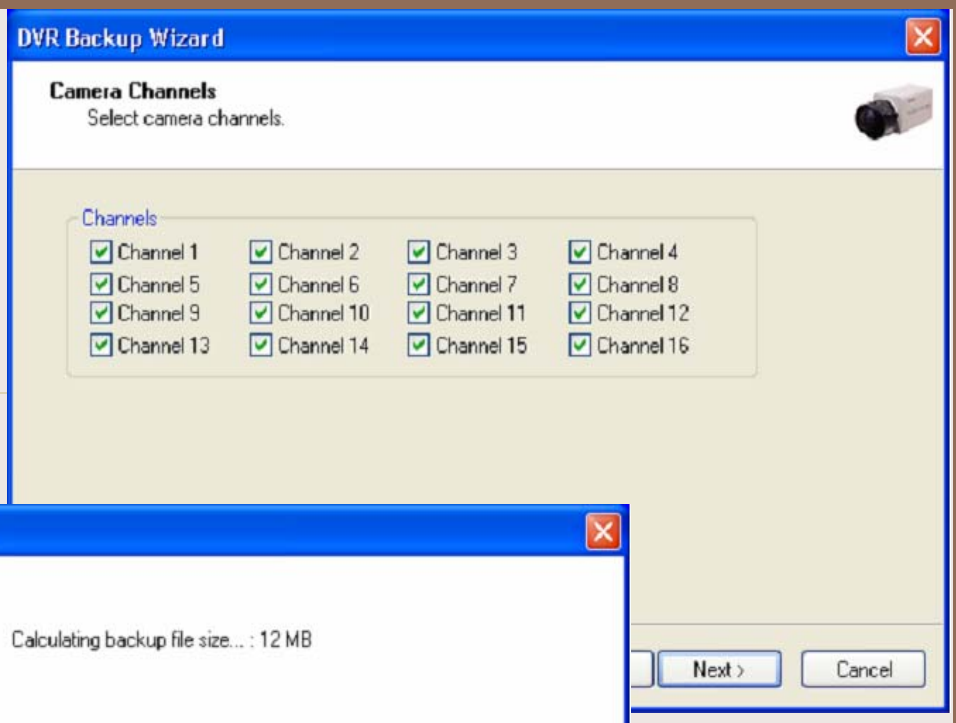
5 Backup

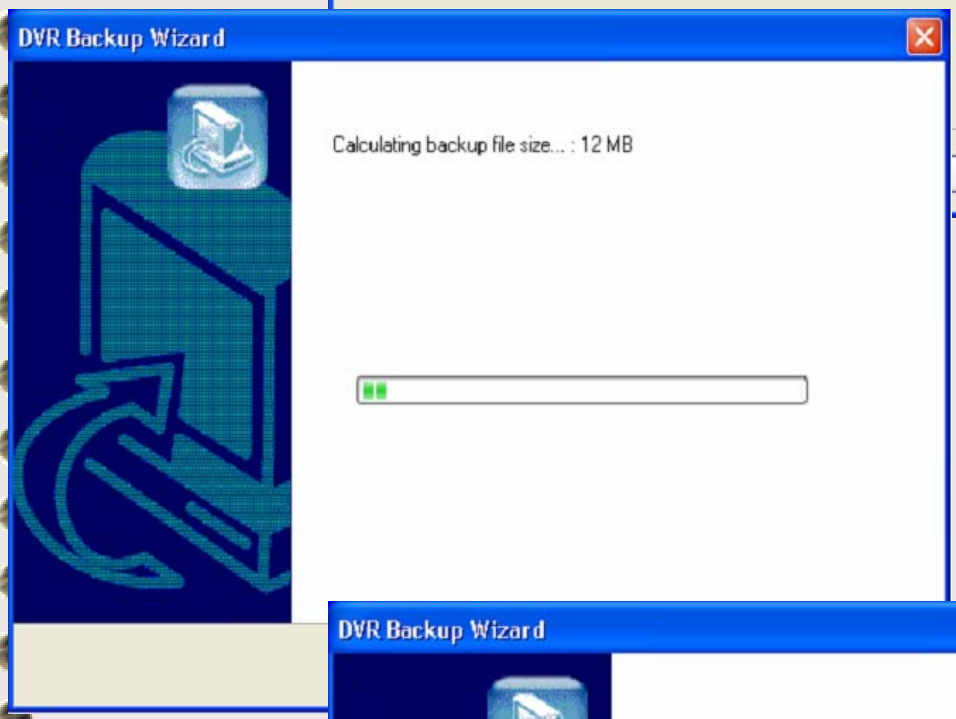


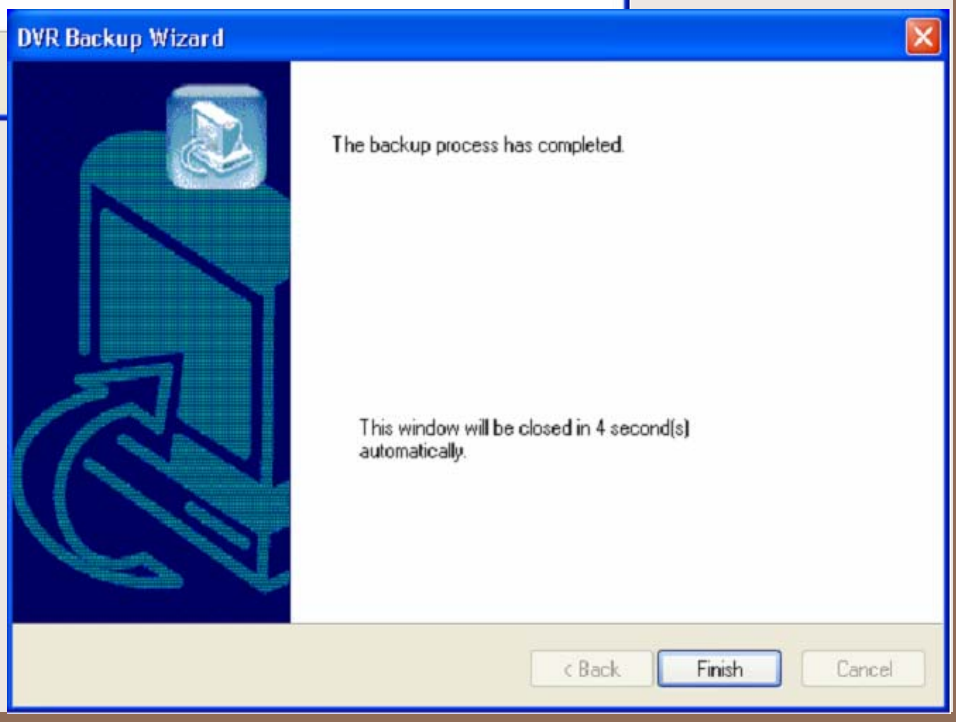
Viewmax enables users to back up recorded data using various backup devices.



If a password is set, the system will ask users to type it in as they try to view backup data.


DVR Backup Wizard
Camera Channels
Select camera channels.
Channels
Channel 1
Channel 2
Channel 3
Channel 4
Channel 5
Channel 6
Channel 7
Channel 8
Channel 9
Channel 10
Channel 11
Channel 12
Channel 13
Channel 14
Channel 15
Channel 16
Next >
Cancel

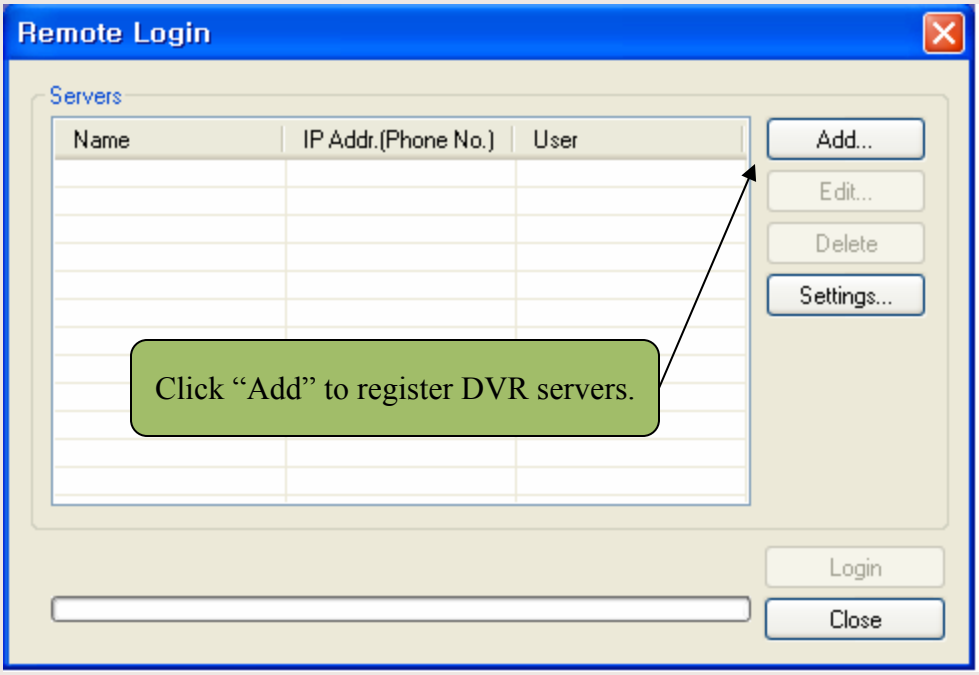

DVR Backup Wizard
Calculating backup file size... : 12 MB

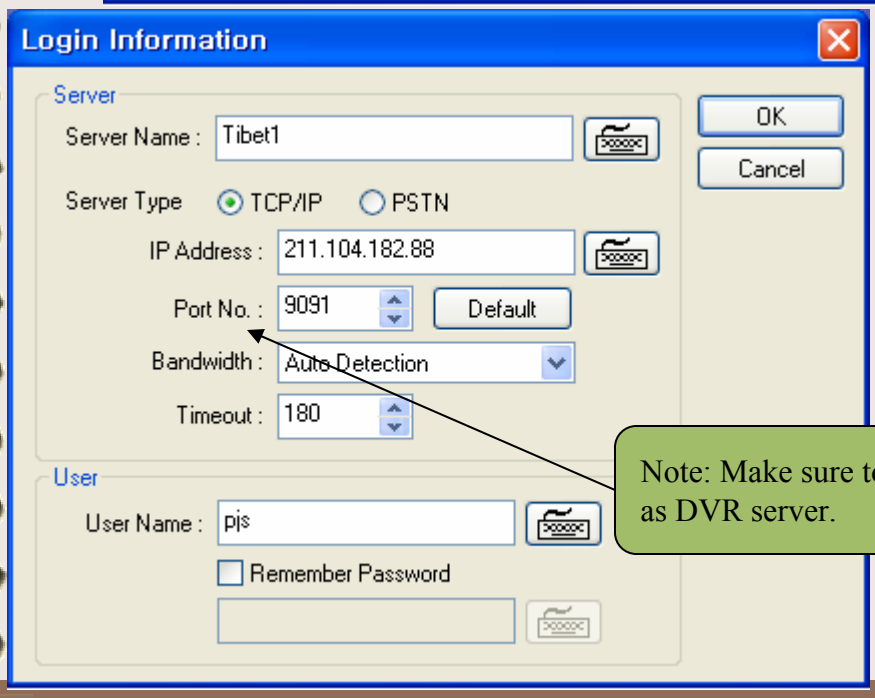

DVR Backup Wizard
The backup process has completed.
This window will be closed in 4 second(s) automatically.
< Back
Finish
Cancel

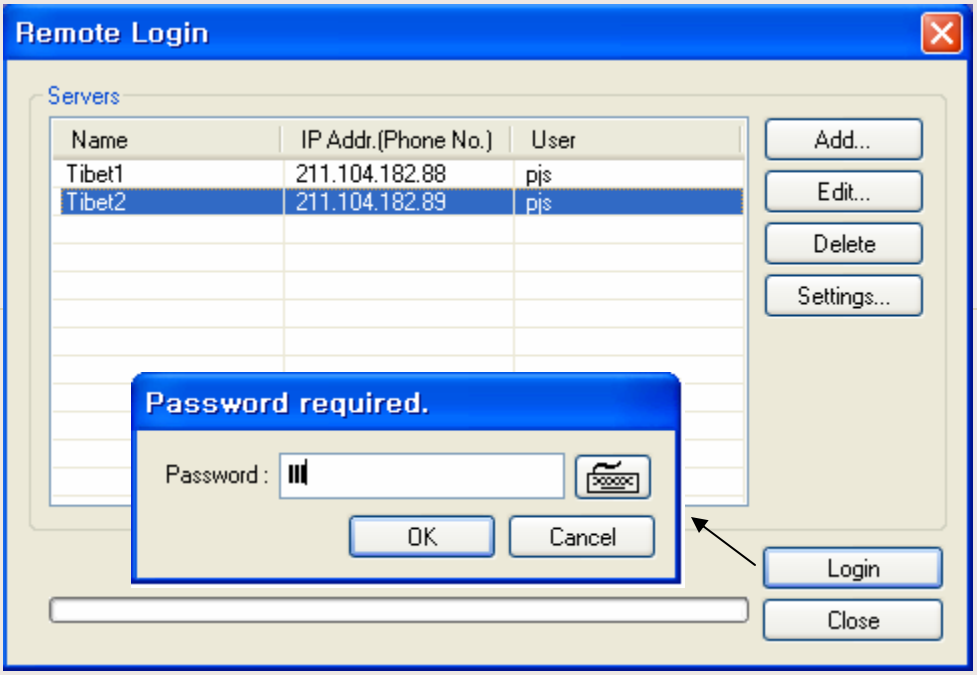
CHAPTER 6
Remote Monitoring System (Client)

6 Program Execution

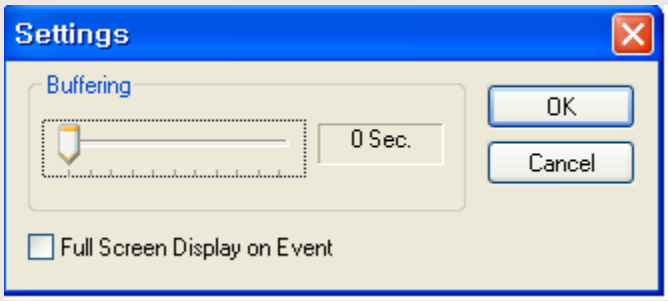
Double-click on the “Viewmax DVR Client” icon on the desktop to execute the remote monitoring system.







Users can have more than one DVR server registered for their own convenience. Select one from “Servers”, click on “Login”, type in password to log in.
* Edit: Login info. changes can be made here.
* Delete: Registered servers can be deleted with one click.



Full Screen Display on Event: If checked, a full screen will be displayed on events.